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ANDREWS

FARIBAULT, MINNESOTA



The 1944 BOOK of Selected Planting Stock

FRUIT TREES • BERRY
BUSHES • ORNAMENTALS

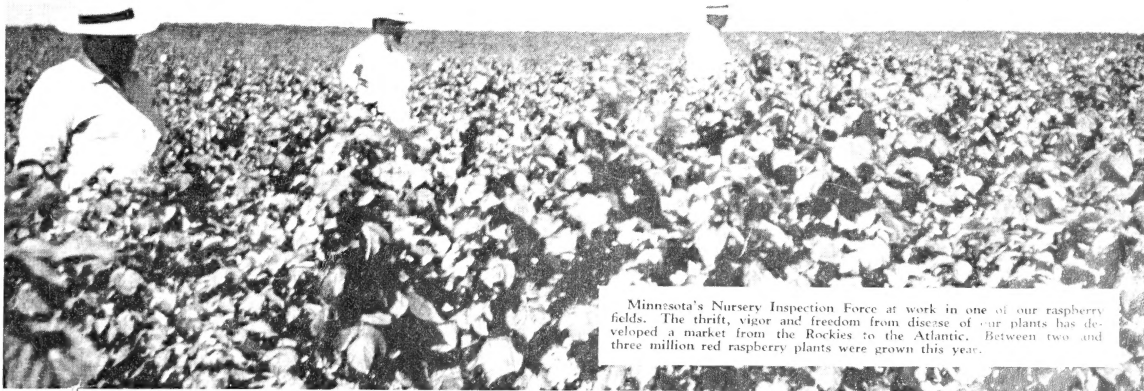
The New **SUNRISE RED RASPBERRY**

- EARLY BERRIES
- LONG SEASON
- IDEAL HOME BERRY
- BRINGS TOP MARKET PRICES



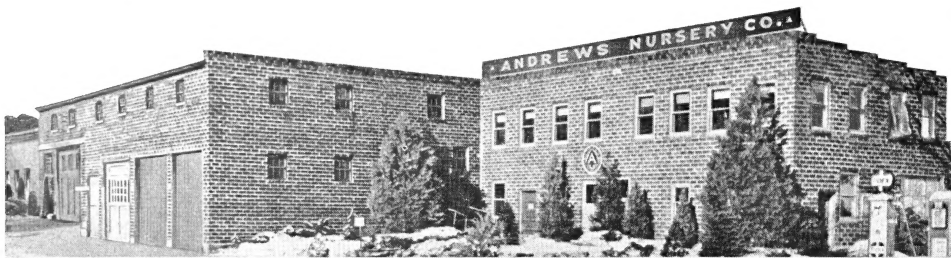
Full
Description
Page 16

Plant SUNRISE This Year



Minnesota's Nursery Inspection Force at work in one of our raspberry fields. The thrift, vigor and freedom from disease of our plants has developed a market from the Rockies to the Atlantic. Between two and three million red raspberry plants were grown this year.

ANDREWS 1944 PLANTING GUIDE



1200 Acres of Fertile Soil—72 years of experience and a modern refrigerated warehouse combine to give you vigorous dependable planting stock. Over 3 million trees and plants are in our storage ready for distribution in the spring of 1944.

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A Message to Victory Gardeners and Fruit Growers

UNCLE SAM SAYS—

Produce More Fruit—Your Country Needs It!

OUR PLANT BREEDERS SAY—

Plant our new improved varieties—apple trees that thrive in northern climates, bearing fruit with more color and more flavor, giving you an abundance of apples for every season. New and improved berry fruits—more prolific—better quality and more dependable than the older sorts.

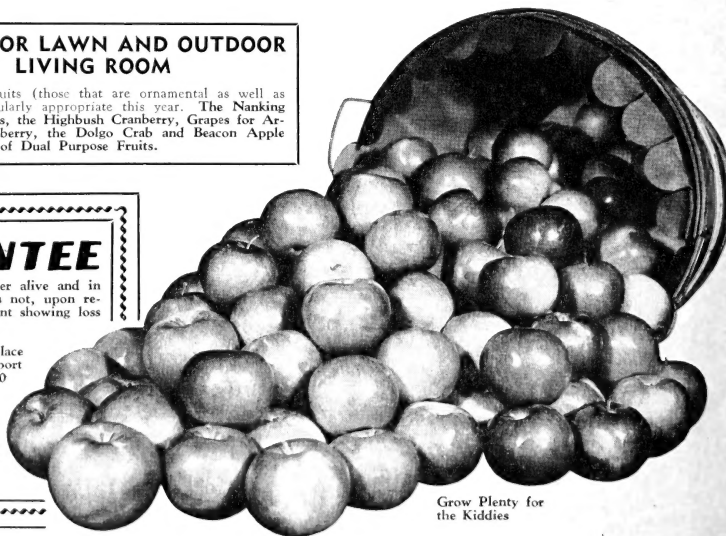
THRIFT AND GOOD SENSE SAY—

Rationing and grocer's bills have no terror for the thrifty homeowner who is well supplied with fruits and vegetables from his own garden.

It's not necessary to have extensive plantings. A well-selected assortment in a home orchard will yield loads of fruit for every season.

FRUITS FOR LAWN AND OUTDOOR LIVING ROOM

Dual Purpose Fruits (those that are ornamental as well as fruitful) are particularly appropriate this year. The Nanking and Korean Cherries, the Highbush Cranberry, Grapes for Arbor, Pixwell Gooseberry, the Dolgo Crab and Beacon Apple are good examples of Dual Purpose Fruits.



Grow Plenty for
the Kiddies



T. L. AAMODT,
State Entomologist of Minnesota

St. Paul, Minn.,
Sept. 3, 1943.

Andrews Nursery Co.,
Forthville, Minn.

Gentlemen:

Field inspection of your nursery has been completed for the season and the reports indicate your stock is in good healthy condition.

We are especially pleased with the appearance of your strawberries, raspberries and fruit trees. The public can safely plant such stock as yours.

Very truly yours,

(Signed) T. L. AAMODT,
State Entomologist.

ANDREWS GUARANTEE

We guarantee that all our nursery stock will reach the purchaser alive and in growing condition, and will replace, free of charge, any that does not, upon receiving your express or freight receipt with statement from the agent showing loss or damage.

Any tree or plant that dies the first growing season, we will replace at a cost of one-half the regular catalog price, customer to make report and have his order for replacement in our hands before October 10 following date of purchase.

We guarantee to all our customers stock that is true-to-name and absolutely as represented. Any of our stock proven not to be, will be replaced free of charge or the purchase price refunded. It is mutually agreed by the purchaser and ourselves that we are not to be held liable for any damage other than herein named.

ANDREWS ^{"Special Northern Rooted"} FRUIT TREES

Our "Special Northern Rooted" Trees Add Years to the Life of Your Orchard

YOUR ORCHARD SUCCESS

Depends on the root system of your trees. If you choose "common" rooted trees—you will invite disappointment. If you choose our "Special Northern Rooted" trees—you can achieve success.

Planting Distances

The planting distances given below are for average locations and average conditions. If your location or conditions are better or are less favorable than average, you should adjust your planting distances accordingly.

Apples	25 to 30 ft. apart
Plums	18 to 25 ft. apart
Cherries	15 to 25 ft. apart
Grapes	8 to 10 ft. apart
Currants	4 to 5 ft. apart
Gooseberries	4 to 5 ft. apart
Raspberries—	
Hill System	5 by 5 ft.
Hedgerow	2 by 6 ft.
Rhubarb	3 to 4 ft. apart
Asparagus	1 ft. apart

Complete instructions will accompany each order.



Comparative Root Stocks in Our Trial Orchard

Left—17-year-old McIntosh which was grafted on "common" root stocks. The common root stock could not endure Minnesota conditions—it died completely, leaving the tree to exist on the few "scion roots" which had come out above the graft. Result: weak, unsatisfactory growth—little or no fruit.

Right—17-year-old McIntosh which was grafted on our "Special Northern" stocks. The success of this tree is due to the hardy, sturdy root which anchors the tree securely and makes possible vigorous growth of tree and heavy crops of fruit.

Seeing is Believing

Why are some orchard trees productive and strong while others are crippled failures? These pictures tell the story and present proof that much of the difference is due to the root system on which the tree is propagated. They show the superiority of **Andrews Northern Rooted** trees over **common** rooted trees.

The pictures were taken in our 120-acre orchard where this comparison was made. 50 McIntosh propagated on our **hardy northern root stocks** were set alternately with 50 trees propagated on **common** roots. Both lots of trees were the same size when planted in 1922 and both received similar care through the 17 years up to the time the pictures were taken.

At 17 years of age the trees with our **hardy Northern** roots were at least three times as large as the same aged trees on **common** roots. There was much mortality among the **common** rooted trees, but little among the **Northern**.

The **common** rooted weaklings had borne little fruit and were a financial loss, whereas the **Northern** rooted trees under similar culture were strong and sturdy and had borne regular and profitable crops.

Planting Wisdom

Common rooted fruit trees, when received from a nursery, may look the same to you as **Northern** rooted trees—may even start all right if they have a favorable season. However, when the first severe winter comes and there is no snow on the ground for protection, **common** rooted trees are quite sure to be injured or may be killed outright. The result next spring is a dead or crippled orchard.

An apple tree is no harder than the root it is grafted upon. Hardy root stocks are just as essential for a successful orchard as a good foundation is essential for a substantial building.

The wise planter will insist on **Northern** root stocks under the trees he buys. More failures are due to improper root stocks than to any other one cause. **Plant Andrews Northern Rooted Trees** and you can enjoy the pleasure, satisfaction and profit of a successful orchard. The trees listed on the following pages are all propagated on **Hardy Northern Root Stocks**. Order early while assortments are complete.

FREE!

These Valuable Gifts Free for Ordering Early

This year, while labor is short, we urge you to **order early**. This enables us to give you better service by having more time to get your order ready for shipment.

If you will send us your order for nursery stock before March 15th, you may select Free Premiums, as follows:

On nursery orders of \$3.50 to \$5.00, select **ANY ONE Free Premium**.

On nursery orders of \$5.00 to \$7.00, select **ANY TWO Free Premiums**.

On nursery orders of \$7.00 to \$10.00, select **ANY THREE Free Premiums**.

On nursery orders of \$10.00 and up, select **ANY FOUR Free Premiums**.

- No. 1. 1 Red Leaf Barberry, 2 yr.
- No. 2. 1 Golden Elder, 2 yr.
- No. 3. 1 Dwarf Pink Spirea, 2 yr.
- No. 4. 1 Red Quinceberry, 2 yr.
- No. 5. 1 Hydrangea Snowhill, 2 yr.
- No. 6. 1 Weigela, 2 yr.
- No. 7. 2 Bittersweet Vines, 2 yr.
- No. 8. 1 Baby White Birch, 2 yr.
- No. 9. 1 Baby Lombardy Poplar, 2-3 ft.
- No. 10. 3 New Sunrise Raspberry.

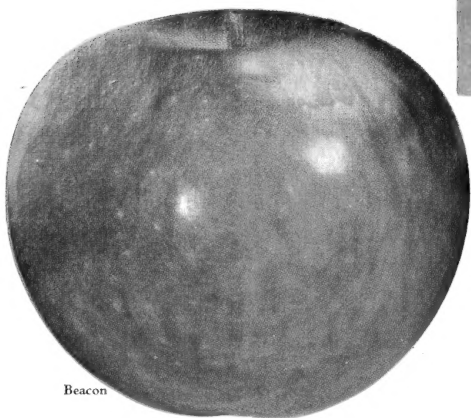
When you get two or more Free Premiums, they may be alike or different. Please write on your order the Free Premiums you select, otherwise none will be sent. In case we should run short of some items, we reserve the privilege of changing premiums.

CUT GROCERY BILLS by "Growing Your Own"

ANDREWS *Better* APPLES

The Story of Seven New Apples Which Upset the Old Apple Kingdom

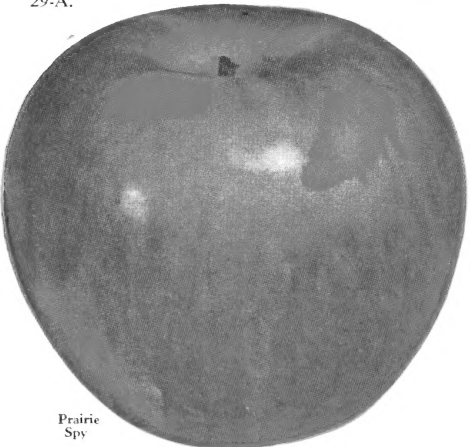
(All cuts are genuine reproductions)



Beacon

BEACON ★★★

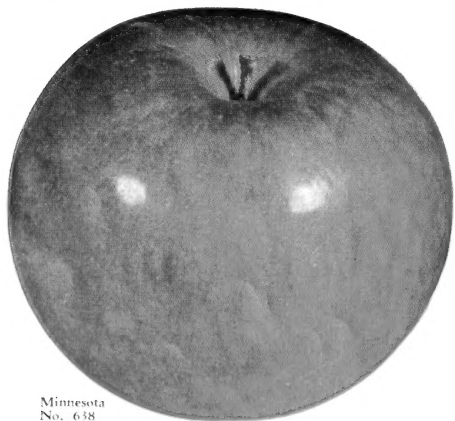
Early—all-red—hardy—productive. A favorite in the home orchard and a money-maker on the market. See full description on page 5. Price, page 29-A.



Prairie
Spy

PRAIRIE SPY ★★★

A heavy cropper of firm, highest quality, long keeping apples. See full description page 5. Price, page 29-A.



Minnesota
No. 638

America's standard of living is the highest in the world. That's because we are not satisfied with what our grandfathers had. We are constantly striving for "something better." That's why our autos, radios, refrigerators and such things are so efficient. That's why we have improved hybrid corn and marvelous baby beef.

Horticulture also has been awake in Minnesota. Our State Fruit Breeding Farm has done splendid work—giving to the world the Latham raspberry—luscious plums—juicy cherries. And now after years of patient and intelligent work they have given us a **new race of hardy apples**. Apples the equal of any in the United States for quality and with hardiness of tree that extends apple growing even up into Manitoba, Canada.

Starred Varieties (★★★)
Originated by Minnesota
Fruit Breeding Farm

The most desirable apples heretofore available were too tender for tough climates. Untold thousands of Delicious, Jonathan, Winesap and other trees were wasted every year because they cannot live under any but very favorable conditions.

The splendid assortment of new varieties on these two pages revolutionize apple growing. Briefly: They have **plenty of quality**. They furnish a succession of high grade, home grown fruit from August through fall, winter and the following spring. They are **sturdy and hardy**. They thrive and produce where older sorts have failed.

Plant the full assortment of these new apples and experience the year around pleasure and satisfaction of such choice fruits grown in your own back yard.

Orchard Special!

2 Beacon
2 Prairie Spy
2 Haralson
1 "Winter Wealthy"
(Minnesota No. 638)

7 TREES, 5 to 7 ft., Only ... \$8.25

7 TREES, 4 to 6 ft., Only ... \$6.35

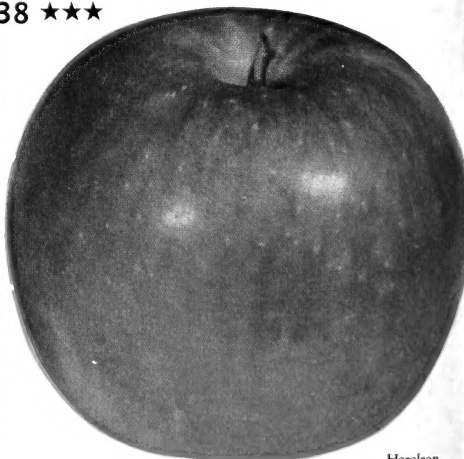
HARALSON ★★★

At the time Haralson was introduced, Professor Alderman said of it: "Its size, shape and color are just right for an ideal commercial apple. The tree is extremely vigorous, productive and hardy. The branches spring at wide angles from the central trunk and are very strong in the crotches. The fruit will keep in an ordinary cellar throughout the winter without artificial refrigeration."

Since it was originated, over 25 years ago, Haralson has justified every claim made by Professor Alderman. Further description, page 6. Prices, page 29-A.

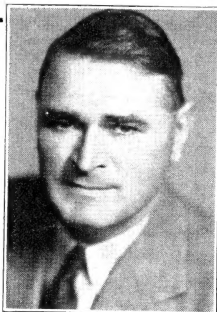
MINNESOTA No. 638 ★★★

This has been called "Winter Wealthy" but that hardly does it justice. Professor Alderman says: "Many growers who have observed this handsomely colored solid red apple have acclaimed it as the most promising commercial variety of the new varieties. Evidence in support of this view is found in its consistent annual cropping, its even distribution of fruit throughout the tree and lack of clustering, the even size and clean, attractive finish of the fruit, its ability to hang to the tree in high wind, and its mild but pleasant flavor. It requires a long season to develop full maturity, harvest usually coming about the middle of October. It is classed as a winter apple but is not a long keeper. In common storage it should be used before the end of January. No. 638 has not failed to produce a crop in over 20 years. Price, page 29-A.



Haralson

ANDREWS *Better* APPLES



PROF. W. H. ALDERMAN
Chief
Division of Horticulture, University
of Minnesota.

Notable Achievement

Prof. Alderman, and his staff at the Minnesota State Fruit Breeding Farm have done a notable work in developing the splendid new apples listed on these pages as 3-Star (★★★). These varieties will revolutionize apple growing just as Latham has revolutionized raspberry growing.

Prof. Alderman justly says: "Minnesota now has apples that will compete favorably with any in the world."

NEWEST of NEW *Special!*

- | | | |
|---------------------|-----------------|---|
| 1 Minjon. 5-7 ft. | } \$5.25 | Only 1 set to a customer at this price. |
| 1 Victory. 4-6 ft. | | |
| 1 Fireside. 5-7 ft. | | |

MINJON ★★★

A "Minnesota Jonathan"

Minjon thrives and produces even in Northern Minnesota. By actual performance it has earned a place in the forefront of apple orchards. Here's why:

1. It is very hardy. Grows and produces far north.
2. Extremely attractive, all red, a brilliant red.
3. Bears abundantly and regularly.
4. Fruit is distributed evenly over tree.
5. Hangs well until picked.
6. Good eating and good cooking quality.
7. Sells readily at top prices.



Minjon

Prof. Alderman says: "Minjon is hardy, vigorous and productive, fruits heavily, hangs well. The color is dark red, bright and very attractive. The flesh is yellow with a tinge of red beneath the skin, sometimes at full maturity reaching half way to the core; texture is firm, crisp, medium coarse, does not bruise easily; quality good to very good. Season late fall following Wealthy." Price, page 29-B. **PLANT MINJON FOR HOME OR FOR MARKET.**

VICTORY ★★★

"A Better McIntosh"

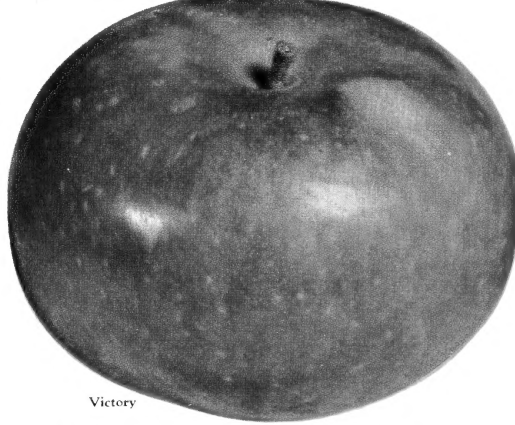
Leading fruit growers consider Victory is superior to both McIntosh and Cortland! Its points of superiority are:

1. More resistant to scab.
2. More consistent bearer.
3. Hardier than McIntosh or Cortland.
4. Hangs to tree better.
5. Keeps longer.
6. Better color.
7. Dessert quality equal or better.
8. Is also excellent for cooking.
9. Has a short non-puncture stem.

Prof. Alderman says of Victory: "An apple of McIntosh type but later in season, a little more firm in flesh, generally a better color and the fruit is less likely to drop before ready for harvest. The picking season is about a week following McIntosh and it keeps at least a month longer in the winter. Not only is it of high dessert quality equalling or exceeding McIntosh but it also has excellent culinary qualities for use in baking, pie-making, apple sauce or uncooked in fruit salads."

The American Fruit Grower magazine says: "The Victory resembles its well known parent, the McIntosh, in shape, color, and quality, but it has considerable advantage over McIntosh because it is free of the defects of McIntosh which make it (McIntosh) of little value for growing in the middle-west. The tree is hardier, bears regularly, has a record of 73 per cent crop each year for nine years. The fruit hangs better and has a short non-puncture stem. It also is less susceptible to apple scab than McIntosh. The tree blooms a little later. The fruit matures on the tree a week later and keeps longer than either McIntosh or Cortland. The flesh and flavor are similar to McIntosh except that it is a little more acid, and therefore, is a better apple for culinary purposes." Price, page 29-B.

VICTORY is well named. Plant liberally for the home or for market.



Victory

FIRESIDE ★★★ A "Super Delicious"

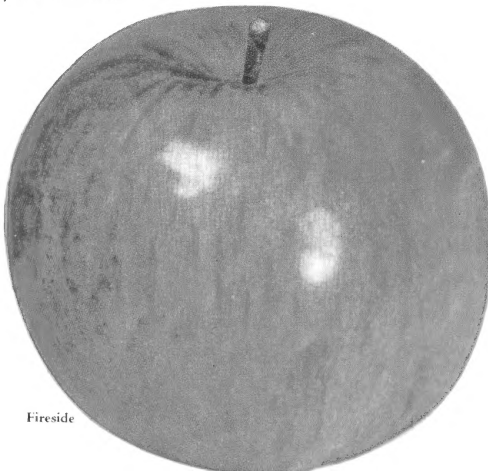
Minnesota has achieved another remarkable success in fruit breeding! The State Fruit Breeding Farm has succeeded in developing a new Delicious apple, hardy enough to thrive in this northern country. As most people know, the common Delicious apple is not hardy or dependable in any but favorable climates. Think what this means! You can now have an apple superior to Delicious in flavor and hardy enough to grow and thrive so much farther north.

Its points of superiority are:

1. Better quality even than the old Delicious.
2. Hardy enough to thrive far north of Delicious district.
3. Tree large, vigorous, and strongly branched.
4. Fruit large, bright attractive red over a greenish yellow ground.
5. Keeps all winter.
6. Annual bearer and fruit hangs well.

Prof. Alderman says of Fireside: "This large long-keeping winter apple can unquestionably be rated as one of the highest quality varieties produced at the Minnesota Fruit Breeding Farm. The flavor would be rated as rich, sub-acid, almost sweet; the flesh is crisp, firm and juicy, and it never develops the bland, dry characteristics of some highly flavored apples at the close of their season."

We believe Fireside will become the favorite and most popular apple in the orchard. Stock limited. Order early. Price, page 29-B.



Fireside

ANDREWS ^{"Special} *Northern Rooted"* FRUIT TREES



Beacon Tops the Market Before Wealthy or McIntosh are Ready

PLANT BEACON ON THE LAWN, IN THE VICTORY GARDEN, OR FOR MARKET

BEACON ★ ★ ★ New Red Early Apple

Color cut page 3. Price on page 29-A.

For Home - or for Market

Beacon is early, but unlike most early apples, it is not quickly perishable. Even though it ripens with or just a few days later than Duchess, it keeps easily into the Wealthy season. This good handling and keeping quality, together with all-red color make Beacon a very exceptional early apple.

Prof. Alderman says:

Prof. Alderman, Chief of Horticulture, University of Minnesota, says: "The Beacon apple is apparently establishing itself very satisfactorily throughout Minnesota and the surrounding territory. The fact that it is very hardy and of early maturity makes it a valuable home orchard variety in the northern and western parts of the state. The commercial growers in the southeastern quarter of the state are reporting marked success with Beacon because its high color, its dependable bearing habit, and its good handling qualities make it a good market apple for the early season."

Best Early Apple

Benjamin F. Dunn, Past President, Minnesota State Horticultural Society, writes of Beacon: "Commercial and home orchardists are planting Beacon because it is a beautiful red apple that outeats, outsells and outkeeps its seasonal rival, Duchess. It cooks well and the trees are a pleasure to grow for they are hardy, vigorous and productive."

Hardy in Far North

Mark Thompson, Superintendent of the Northeast Experiment Station, Duluth, Minnesota, writes: "We like Beacon. Its appeal is in quality, beauty and coloring."

John Buchanan, Nova Scotia, formerly Vice President of American Pomological Society, writes: "A heavy early bearer."

Beacon Tops Market

Fred Haralson, Superintendent of the Minnesota Fruit Breeding Farm, where Beacon was originated, says: "Beacon sold on the Minneapolis market at \$2.00 per bushel, when Duchess brought only 75 cents."

Fred Ulrich, prominent fruit grower in Olmstead county says of Beacon: "As a market apple for its season it will out-sell any other variety."

PRAIRIE SPY ★ ★ ★

Extremely High Quality

Prairie Spy is for discriminating people—those who are not satisfied with common apples. It's for people who appreciate extra fine quality.

Prairie Spy has this exceptional quality—not only for eating, but for cooking as well. What is more, you can enjoy it over a long period, all through winter and early spring, long after other quality apples are off the market. It has no competition in a late keeping, high quality apple.

Benjamin F. Dunn, Past President, Minnesota State Horticultural Society, says of Prairie Spy: "Our beautiful, red Prairie Spy apple is a late-keeping winter apple of EXCEPTIONAL quality. The trees are hardy, vigorous and productive."

Besides quality, it has the other features required for a popular apple.

Absolutely Hardy

The Armistice Day storm of 1940 caused untold damage to tender and half-hardy apple trees. Prairie Spy came through that testing time without a scratch and is reported favorably as far north as Morden, Canada.

Arnold Niefeld, fruit grower of Stearns County, writes: "I have had Prairie Spy since 1930. It has shown no sign of winter injury and we have had the temperature two winters as low as 38 degrees below zero. The fruit is good quality and uniform size. It has always ripened early enough to escape frost. It is the best in quality of my apples, and has strong crotches and bears well. In short, Prairie Spy has done for me all that has been claimed for it."

The "Quality" Winter Apple

Prof. Alderman says:

Prof. Alderman, Chief of Horticulture, University of Minnesota, says of Prairie Spy: "It is an even better keeper than the Haralson and is the best quality winter apple available in late winter and early spring. It has a little tendency to over-bear in alternate years and may require thinning at such time to produce fruits of maximum size and finish. I have been watching this apple for over 15 years at the Fruit Breeding Farm and have always felt that it was destined to become a valuable apple for this part of the country. My confidence is still unshaken."

Praise from Canada

John Buchanan, Nova Scotia, formerly Vice President of American Pomological Society, writes very highly of Prairie Spy: "It is a heavy bearer, and has a very fine record for long-keeping. The fruit is good color and quality, very solid, and an A-1 shipper, the only apple I know that has the Cox Orange flavor."

Superintendent Leslie of the Morden, Manitoba, Experiment Station, writes that Haralson and Prairie Spy thrive in southern Manitoba. The Prairie Spy apple, he says, is a "very fine variety, large, bright red and excellent in flavor."

Bears Young

Henry W. Leidel, prominent fruit grower of Winona County, says: "In my estimation Prairie Spy is a profitable tree to grow. It bears very young. I have a three-year-old graft that produced a bushel and a half of well-colored apples last fall." Color cut, page 3. Prices, page 29-A.



Prairie Spy—A Favorite with Everybody

ANDREWS ^{"Special} Northern Rooted" APPLE TREES

Victory Orchards

The United States Victory Garden Program is a long range program working for improved health and better eating habits after, as well as during, the war.

Concerning farm fruit gardens it was recommended that the home planting of fruit be included in a well-balanced national program of food production both for immediate and long-time needs.

A good orchard cuts doctor bills.

BELOW WE LIST THE LEADING OLDER VARIETIES

ANOKA A very hardy tree and an early cropper. Fruit lacks color, flavor and keeping quality. Not recommended where Duchess or Beacon can be grown. Prices, page 29-A.

CORTLAND Is quite similar to its parent McIntosh but is more uniform in size, has more color, and the red is lighter and brighter. The taste is much like that of McIntosh, the flesh is firmer, and the apples hang better to the tree. Prices, page 29-A.

RED DUCHESS It has all the good qualities of the old Duchess and in addition has attractive bright red color. Red Duchess makes a delicious sauce with a flavor all its own. Commands a better price on the early market than common Duchess. Prices, page 29-A.

HARALSON ★★ ★ In the past ten years it has been the most popular apple in this district. It is a **hardy** tree, stands heat and cold. It has **strong crotches**, seldom splits or breaks. It bears early, often the third year after planting. It bears heavily, in fact, often needs thinning. Finally, it is a **large, all-red** apple that **keeps throughout the winter** in ordinary storage. It's a grand all-purpose apple for home or for market. Plant liberally of Haralson—it's a sure bet. Price, page 29-A.

NORTHWEST GREENING The main qualifications are that it is a good cooking apple and keeps well. However, Haralson and Prairie Spy have these qualifications and have color and good eating quality besides. Prices, page 29-A.

WEALTHY An old variety with good color and flavor, a very good early fall variety. Prices, page 29-A.

WEDGE ★★ ★ Wedge was introduced about 16 years ago but Haralson "stole the show" at that time and Wedge was not widely planted. However, it is now growing in popularity as a good market apple before Haralson is ready. It is a beautiful apple—especially sought by restaurants and hotels, for baking. The Excelsior Fruit Growers' Association has found Wedge a ready seller at a premium over common sorts. The tree is so vigorous and productive that it is proving to be a sure money maker. Prices, page 29-A.

CRAB APPLES

DOLGO A comparatively new and very unusual Crab apple. It has been called the "Perfect Crab." The fruit is **strikingly beautiful, bright fiery red, borne in great profusion**. It jells perfectly—even when dead ripe. Dolgo is **free from blight** and is rapidly displacing the old varieties such as Transcendent and Hyslop. Dolgo makes a beautiful lawn tree and may be used on the home grounds instead of Mountain Ash. Prices, page 29-A.

PIOTOSH This is a new introduction from Canada. The Morden Experiment Station in Canada writes of the Piotosh: "I understand it is being planted rather widely as a **commercial crab**, being a **good preserver, good for jelly** and also **fair as dessert**. It is **medium large**, attains a **bright red color**, making it very attractive. Piotosh is a distinct improvement over Whitney. With us it has fruited more heavily, is better quality, more attractive, and **hardier**." Price, page 29-A.

RED RIVER CRAB A splendid introduction from the North Dakota Agricultural Station, being a cross between Dolgo and Delicious, it combines the beauty, color and life of the Dolgo with the sweet flavor of Delicious. Prices, page 29-A.

WHITNEY An old favorite, a large, red, mild-flavored crab, excellent for eating, canning and pickles. Perfectly hardy, never blights, and is a heavy cropper. It ripens early. Price, page 29-A.



18-year-old Haralson in Our 120-Acre Orchard. Yield in 1940, 25 Bushels

Apples Save Dentists' Bills

The School of Dentistry of the University of Kentucky recently made the statement that chewing a firm apple was 96% effective in cleaning the mouth, whereas using a toothbrush 3 minutes was only 65% effective. Avoid dentist bills by providing plenty of apples for the kiddies.

Apples for Better Health

Dr. Ira Manville, Director of Nutritional Research, Oregon University, stated that apples contribute **Vitamins A, B, C and G**, and pointed out 12 specific ways in which apples contribute to our well being. He says: "Fruits such as apples are really more than food. They are true agents of health endowed with prophylactic and protective powers." The old saying that "an apple a day keeps the doctor away" has a definite foundation in fact. Keep kiddies supplied with apples.

HIBERNAL - VIRGINIA FOR TOP WORKING

These two varieties are ideal for this purpose. Both have been tested and approved by the State Horticultural Department. When buying trees for top-working be sure you buy trees on **Hardy Northern Root Stocks**, as, of course, a Hiberna or Virginia, if on a common root, would have no advantage over any common tree in the trade, and there would be no object in top-working.

HIBERNAL A large green apple, only suitable for cooking, but the tree is ideal for top-working because of its strong, sturdy trunk and crotches. Prices, page 29-A.

VIRGINIA A good crab apple of Transcendent type. The tree is principally recommended for top-working. The trunk is strong and the crotches wide spreading. Prices, page 29-A.



Photo of Topworked Hiberna in Our Orchard. Note Strong Crotches

JUMBO PLUMS from ANDREWS

New Race of Jumbo Plums

Hardy Enough for Cold North Climates
Surpassing in Quality the So-Called "California" Plums

Starred Varieties (★★★)
Originated by Minnesota
Fruit Breeding Farm

UNDERWOOD ★★★

One of the earliest jumbo plums, ripening August 1st to 15th. Very high quality to eat out of hand—not so good to can. Underwood is a strong grower and very hardy. It should be planted near pollinizer plums such as Kaga or South Dakota No. 27. It brings top price on the market. Prices, page 29-D.

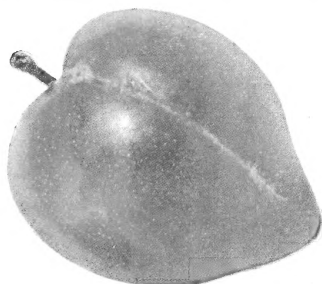


Pipestone

PIPESTONE ★★★

This delicious new plum is now formally christened **Pipestone**. It has very definitely "won its spurs" and is a welcome addition to our list of new plums. Prof. Alderman considers it very much superior to most of the plums now in cultivation.

As he has said "unless a new variety is superior to others now in circulation there is no object in introducing it." Of this new plum he says: "It is a very large productive early red plum of high quality. It begins to ripen at the end of the first week of August. With the possible exception of Superior, it is one of the largest hybrid plums." A particularly pleasing feature is that it is excellent for canning. Stock limited this year. Price, page 29-D.



Superior

SUPERIOR ★★★

One of the largest and very best of the jumbo plums originated by the Minnesota State Fruit Breeding Farm. The tree bears early and is a regular and a heavy cropper. The fruit is very large, firm fleshed, beautiful red color and delicious quality to eat out of hand. Superior is one of the better plums for home or for market. Prices, page 29-D.



Redcoat

REDCOAT ★★★

This is another plum that has passed the test and is declared worthy of a name, **Redcoat**, and a place among the list of choice plums. The trees are highly productive, the fruit is medium sized, prune shaped, all-red with a perfectly free stone. It will become popular on account of the free stone and is expected to take the place of Red Wing, to which it is superior in many ways. Prices, page 29-D.

EMBER ★★★

Without doubt the best late plum. It is well described by Prof. W. H. Alderman, Chief, Division of Horticulture, U. of M., who writes: "Ember is a late plum of good size and has exceptionally fine dessert and canning qualities. It is yellow with attractive red blush. It has two valuable and outstanding characteristics; it hangs to the tree tenaciously even at full maturity, and after picking will keep in good condition for 2 or 3 weeks."

This late plum, together with the earlier varieties mentioned, make a splendid assortment for the home or for market. Prices, page 29-D.



Ember

PLUM POLLINIZERS

Pollinizer plums are essential for success in raising plums. Be sure to include some Kaga apricot-plums or South Dakota No. 27 plums in every group of jumbo plums. If you now have a group of plums not fruiting well, you should add some Kaga to the group this spring.

Kaga and South Dakota No. 27, described below, have proven to be the best pollinizers and in addition are excellent plums themselves.

SOUTH DAKOTA No. 27 This plum is proving out to be one of the best pollinizers for the big hybrid plums above. This South Dakota No. 27 is a good plum in its own right, but is doubly valuable because of its ability to make other plums bear. It's a large red and yellow plum of very high quality either eaten out of hand or when canned. Be sure to include South Dakota No. 27 in your planting. Prices, page 29-D.

KAGA (Apricot-Plum.) It is one of the most positive pollinizers for the jumbo plums or for common plums. Besides, it has a delicious and distinct quality unsurpassed by any other plum. Kaga is especially fine for canning or for plum jam; in fact, is conceded to be at the top of the list for this purpose. Commercial growers are "the apricot-plum." Prices, page 29-D.



Kaga

ANDREWS New Nanking Cherries

A DELICIOUS FRUIT AN OUTSTANDING ORNAMENTAL

The State Fruit Breeding Farms of Minnesota and of Manitoba have again shown their skill in the development of valuable new fruits. These New Nanking cherries are improved selections of the hardy Nanking cherries of northern China. They combine beauty of bloom and foliage and bear loads of the most attractive and delicious cherries. The varieties we offer are the most choice numbered or named varieties from Minnesota and Manitoba.

DELICIOUS FRUIT

The outstanding features about these new Nankings are their early bearing and their heavy and regular loads of fruit that rivals any Montmorency that ever grew anywhere.

PROF. LESLIE, Superintendent of the Dominion Experimental Station at Morden, Canada, says of their new introduction, Drilea: "Upright, spreading, vigorous, annual bearer, fruit round, from $\frac{1}{2}$ to $\frac{5}{8}$ inch across, bright red, flesh firm, tender, sweet, sprightly, pit small, season mid-July, quality delicious as dessert, canned, jelly or jam." The Minnesota varieties are considered just as heavy bearing and just as high quality.

ORNAMENTAL AS WELL AS FRUITFUL

PROF. ALDERMAN says of the Minnesota Nanking Selections: "It can be said of all of them that they are very hardy, very productive and have excellent quality. The bushes are attractive in the spring when they are a mass of bloom and again in July when they are covered with ropes of red or yellowish red fruit. The fruits have a true cherry-like flavor and are excellent for sauce or jelly making."

PLANT ON LAWN OR IN GARDEN

Nanking cherries fit well into any landscape planting or they may be planted in the garden or orchard. The bushes are neat and trim. They grow to a height of 5 or 6 feet. The foliage is clean and attractive, and the wealth of bloom would make them valuable on the lawn even if they bore no fruit.

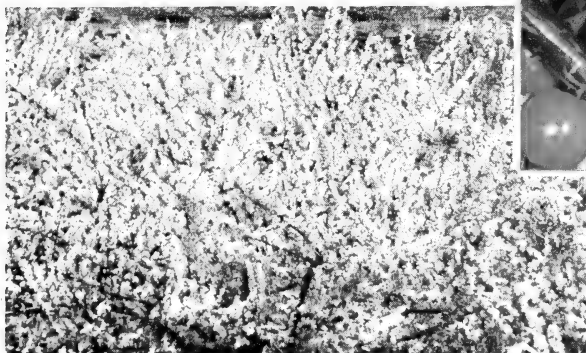
SAVE GROCERY BILLS

As shown in the photo, Nanking bears loads of cherries. They usually start the second year, by the third year they are in heavy production. The fruit ripens in mid-July before most tree fruits are available. You will have an abundance of fruit for eating out of hand, for canning or for jelly. Plant Nankings and Cut Your Grocery Bills.

PLANT FULL ASSORTMENT

To insure pollination it is recommended that you plant several varieties. The combination suggested below will insure an abundance of fruit and furnish ornamental value besides.

Prices: 2 to 3 ft., \$1.25 each; 3 to 5 ft., \$1.45 each.



Nanking is Dual Purpose—Loads of bloom in spring, followed by loads of fruit in July

NEW NANKING CHERRY—Actual reproduction, one-half actual size

SHRUB BORDER SPECIAL!		COMPLETE ASSORTMENT	
4 Nanking Cherries: (1 each of 4 best varieties)	1 Minnesota No. 20 ***	3-5 ft. size, \$5.35	
	1 Minnesota No. 41 ***	2-3 ft. size, 4.55	
	1 Minnesota No. 42 ***	DOUBLE SPECIAL	
	1 Manitoba's Drilea	for the Orchard	
		8 TREES, 3-5 ft., \$10.00	
		8 TREES, 2-3 ft., 8.75	
Not Over 2 Nanking Specials to a Customer.			

ANDREWS Northern CHERRIES

SAPA CHERRY

The Popular Heavy Producing Red Flesh Favorite

Since its introduction a number of years ago by Prof. N. E. Hansen, Sapa has become very widely planted. The fruit finds ready sale on account of its **splendid quality** which is unexcelled for **canning, for sauce and pies and for eating out of hand**. Sapa is a large sized hybrid cherry with a small pit. It is purple-red outside and wine-red inside, thin skinned and delicious flavor.

Fruits at 2 Years Old. The Sapa forms fruit buds on one-year-old wood. Thus it is that Sapa can bear the next year after planting in the orchard—it is this reason that makes it a good annual fruiter.

Hardy—Easy to Grow. Sapa is very hardy and thrives over a wide range. It is best practice to grow Sapa as a large bush and keep them pruned more severely than most fruit trees. Cut out the older growth and encourage growth of new shoots that will set fruit regularly and heavily. Include some of the pollinizers listed below. **Prices, page 29-F.**

OKA CHERRY

This is another hybrid cherry recently introduced by Professor Hansen. It should be grown in bush form as suggested for Sapa. The fruit is a rich purple-red color both outside and inside, a delicious flavor and the tree is immensely productive. It produces fruit buds the second season. It is about a week earlier than Sapa. **Prices, page 29-F.**

This photograph is of one of our cherry orchards.

VICTORY DEMANDS HEALTH

Almost 40 per cent of the boys examined for Selective Service have been rejected because of malnutrition. The records show that there is even more malnutrition in rural districts than in town! That is why there is a national campaign on urging us to eat more fruit.

Those who grow their own can afford to enjoy more fruit. **A good fruit planting, including some of these northern cherries, will provide an abundance of Vitamins A, C and G. Plant fruit trees this spring for Defense of Health.**

DELICIOUS JAM RECIPE

Cover plums or cherries with water, add 1½ teaspoons soda, boil till skins break, drain through colander, remove pits. Add sugar pound for pound. To a moderate sized kettleful, add one tablespoonful of vinegar, boil until thick. Put in jars and seal.

DEFENSE PROGRAM!

Plant Fruit Trees
This Year—They Will
Cut Grocery Bills Later



Hansen's Improved Bush Cherry

POLLINIZER CHERRIES

COMPASS

Has proven to be a most satisfactory pollinizer for Sapa and Oka cherries. It is a very hardy tree and thrives in nearly any sort of location. The fruit is especially good for jams, jellies and for canning. Compass is an early fruiter, bearing the second year. It is indispensable as a pollinizer for Sapa and Oka. Plant a Compass in every group and in large plantings at least 1 Compass to 8 or 10 Sapa or Oka. **Prices, page 29-F.**

OPATA

Proving to be an excellent pollinizer for Sapa and Oka and, incidentally, is a very good cherry plum to eat out of hand, but not as good for canning. We recommend it to be used for Sapa and Oka as a pollinizer. **Prices, page 29-F.**

PROF. HANSEN'S BUSH CHERRY

Prof. Hansen's improved bush cherries are recommended as pollinizers for the other cherries listed above. They are easy to grow. The fruit makes good preserves. They bear early, heavily and annually, and, most important, they are effective pollinizers for Sapa and Oka. **Prices, page 29-F.**



BLACK WALNUT

We offer a hardy strain of the Minnesota black walnut. A group of these trees might well be on every farm. They are easy to grow, and it's mighty fine to have a supply of the nuts for the kiddies. Black walnut logs bring a small fortune.

Prices shade trees, page 30-L.

Prices windbreak trees, page 21.

ANDREWS Hardy PEARS

LUSCIOUS TREE RIPENED PEARS for YOUR Eating Pleasure

Plant these hardy northern pears and experience the saving and the satisfaction of growing your own.

Suitable for Lawn or Orchard



J. R. King of Faribault Just Loves His Parker Pears—Note the Million Dollar Smile

PARKER PEAR ★★★

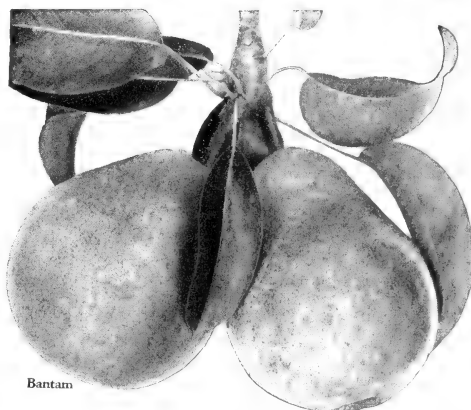
This splendid pear was introduced a few years ago by the Minnesota State Fruit Farm and has been steadily gaining recognition and favor since that time. It is now recommended for general planting in the southern half of the state and is suggested for trial in favorable locations farther north.

Prof. Alderman, Chief of Horticulture, University of Minnesota, describes the tree as "large, vigorous and free growing. The fruit is medium to large, with smooth medium thick skin; color clear medium yellow, usually with bluish; flesh is tender, medium fine grained, juicy, sweet and of very good quality. Fruit ripens in early September." Somewhat subject to blight if grown too rapidly. **Price, page 29-C.**

NEW BANTAM PEAR ★★★

Formerly Known as Minnesota No. 3

Bantam was originated at the Minnesota State Fruit Breeding Farm. The fruit is not as large as the other varieties, but makes up in quality what it may lack in size. The tree is as hardy as a Duchess apple tree and can be grown successfully wherever Duchess can be grown. It is free from blight and is a heavy and annual cropper. To eat or to can this new pear has made a place for itself.



Bantam

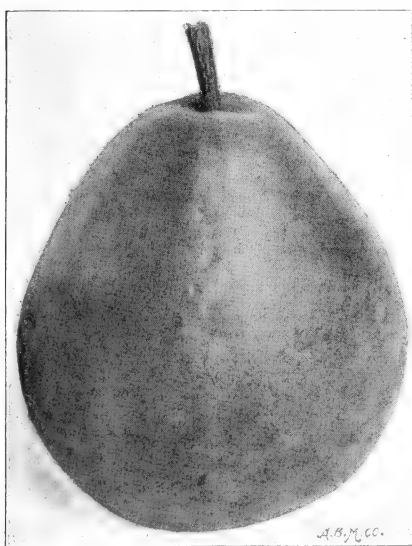
Prof. Alderman writes of Bantam: "It is expected to find a useful place in our northern horticulture because it combines for the first time a pear fruit of **real quality** for dessert purposes with a tree that is highly resistant to the two factors which have heretofore prevented successful pear culture in Minnesota, namely, severe cold and fire blight disease."

Being a strong, vigorous grower, this Bantam pear makes a very appropriate and a very interesting tree to plant on the outside lawn or in the outdoor living room. **Prices, page 29-C.**

NEW PATTEN No. 5 PEAR

This is one of a group of seedling pears originated by the late Mr. Patten. A number of them were distributed about the state for trial. These have been bearing a number of years and one of them, the No. 5, is especially outstanding. This No. 5 is considered to be as hardy as a Hibernian apple tree, consequently it could be planted far north and will be a good companion to Bantam for cross-pollination.

The Patten No. 5 is a little larger than Bantam and is of excellent quality. It is a regular and very heavy bearer. It has not been known to blight. Stock limited this year. **Price, page 29-C.**



Patten No. 5

VICTORY ORCHARDS

The United States Victory Garden Program is a long range program working for improved health and better eating habits after, as well as during, the war. Concerning farm fruit gardens it was recommended that the home planting of fruit be included in a well-balanced national program of food production both for immediate and long-time needs. A good orchard cuts doctor bills.

ANDREWS *NEW* KOREAN CHERRIES



The New Koreans Bear Profusely

Small Bushes in the Shrub Border Bear Loads of Cherries



The New **Korean Cherries ★ ★ ★**

**A Splendid Ornamental Bush
Producing Delicious Pie Cherries**

You will be surprised and delighted with these new Korean cherries. The bushes grow only 3 to 3½ feet tall. They are distinctly ornamental but they also bear loads of delicious full-sized cherries usually at the tender age of 2 years.

A wild form of this cherry is a tough, hardy native of Korea. Our horticulturists at the Minnesota State Fruit Breeding Farm recognized possibilities for improvement. After years of selection, testing, and improving they developed these sturdy little specimens that have surprised and delighted all who have seen them. Our stocks of this new cherry are propagated from the State's most choice selections.

TRULY ORNAMENTAL

The bush of this Korean cherry resembles the popular flowering almond in appearance. They are a credit to any landscape planting. You can plant them around the foundation, in the shrub border, the screen planting, or in the garden.

Professor Alderman says: "The bushes carry a mass of white bloom in the early spring, have a fine delicate foliage, and in the latter half of August make a brilliant display with their loads of red fruit." The foliage also has attractive autumn coloring.

A DELICIOUS PIE CHERRY

You would never suspect these little bushes could carry such loads of full sized cherries that resemble the regular pie cherry shipped by carloads from cherry sections of the country. These Koreans are perhaps a little sweeter and they make excellent pies and sauce and jelly. As Professor Alderman says: "They are similar to the ordinary sour cherry of commerce and can be used for pies and sauce in the same way as the ordinary sour cherry is used."

Now that it is possible to raise these fine cherries in your own yard or garden, it is not necessary to depend on the grocer. That will make a nice saving and give you fresher fruit with no waste. These attractive bushes fit well in any ornamental planting or in the garden.

Good Reports from Wisconsin

H. J. Rahmlow, Secretary of the Wisconsin State Horticultural Society, who saw some of these Koreans fruiting in our plantings reported, "The No. 60 is a late maturing variety and the fruit is in good condition and of good quality the first of September. In fact, the fruit is considered equal to sour cherries and perhaps a little sweeter."

Praise from New Hampshire

Dr. A. F. Yeager, of the New Hampshire Dept. of Horticulture, commenting on these new Koreans states that plants bore an abundant crop the second year. He said: "These were very nice to eat out of hand even in competition with regular sweet cherries."

Prices: Our stocks are limited this year. Minnesota No. 60 and No. 20 while the supply lasts—1 to 2 foot, \$1.50 each. 1 Korean seedling pollinizer included free with each order at no charge.

ANDREWS "Certified" RASPBERRY PLANTS

*Raspberries are Easy to Grow
Delicious to Eat*

TAYLOR RED RASPBERRY Taylor is the most promising of the new red raspberries from the New York Experiment Station. The plants are strong, vigorous growers and are very heavy croppers. The canes are quite upright and carry a load well. The berries ripen shortly before Latham, are large, bright, attractive red, firm, and of really excellent quality. They do not cling to the bushes tightly as some varieties but come off readily without crumbling. All indications are that Taylor will take a leading place in raspberry circles. Needs winter protection in Minnesota. Prices on page 30-A.

INDIAN SUMMER EVERBEARING Each year sees INDIAN SUMMER forging steadily to the front. The New York Fruit Testing Association considers this variety decidedly superior to other everbearing sorts in the trade.

The berries are large, conical, medium red, rather soft, good quality. The summer crop ripens early, beginning the last week of June. The autumn crop starts in September and continues until a severe frost. The bulk of the fall crop ripens in October.

The fall crop may not always ripen in northern sections but the regular crop in June is well worth while. Since it ripens ahead of most raspberries, it brings a fancy price on the market. This past season growers got \$6.00 a case on the Minneapolis market for most of their INDIAN SUMMER on account of its earliness.

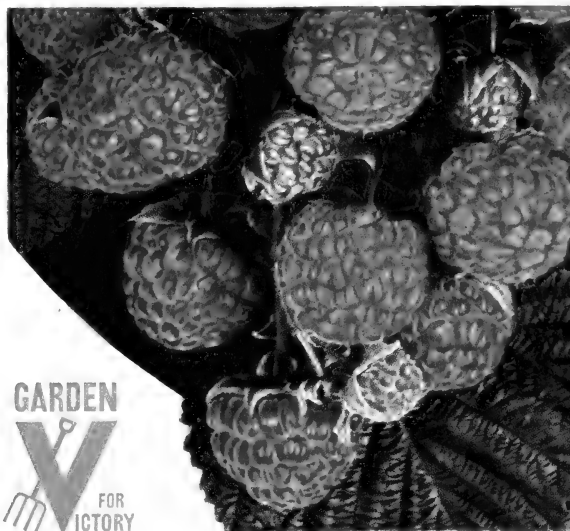
For the best everbearing raspberry, plant INDIAN SUMMER. Prices on page 30-B.

NEWBURGH Is another New York raspberry that is doing well in many localities. The fruit is large, very firm, and does not crumble. The color is a bright attractive red. It has good keeping and shipping qualities and is very productive. In Minnesota, Newburgh needs winter protection. Prices on page 30-A.

SODUS PURPLE CAP A new purplecap originated by the New York Experiment Station. It is extremely vigorous, hardy and drought resistant. In our experimental plots Sodus has surpassed all others in growth of cane and in production. The berries are large, firm, medium purple in color, sprightly and good in quality. It ripens shortly after Latham. Sodus is an exceptionally heavy producer and is proving out to be the most dependable and profitable of all purplecaps. It does not require winter protection in Minnesota.

Sodus is no longer in the experimental stage. We secured our propagating stock direct from the New York Experimental Station nearly 10 years ago. It has not failed to produce fruit any year since.

Our experience shows Sodus to be the most dependable of all purplecaps or blackcaps. Prices, on page 30-C.



CHIEF ★★★ Chief is a seedling of Latham and in general has many of the good qualities of Latham. The berries are not quite as large as Latham, but Chief will yield as many crates per acre—they are just a little slower to pick. Chief is of excellent flavor and has definite points of advantage over other sorts. Chief seems somewhat more disease resistant than other red raspberries and seems to endure more cold without injury. Consequently it can be successfully grown a little further north and under more difficult and trying conditions. It is an especially good raspberry for the farm garden where it may have to shift for itself more than it would in a good commercial planting.

We strongly recommend Chief for early market, for severe locations and for farm gardens. Prices, page 30-A.



Sodus



Indian Summer

TWO HARDY BLUE PLUMS

MT. ROYAL BLUE PLUM Hardy in Minnesota or Manitoba, Canada

You may now grow blue plums in your "own back yard" or orchard. You no longer have to depend on getting them from the grocer, shipped in from distant lands. The **Mt. Royal** is one of a large number of European plums which have been tested for hardiness, productivity, and quality in the past 10 years in Minnesota and Manitoba, Canada. **Mt. Royal** stood the test and is now recommended for planting even in this rigorous climate. The trees are immensely productive and are apparently self-fertile. The fruit is a beautiful blue and is especially valuable for preserving and for jam. This makes a welcome addition for your Victory Garden and one less fruit to buy at the grocer's.

KRIKON BLUE PLUM
(Swedish)

Krikon is another of the European plums which have proven hardy and productive and is also excellent for preserving and jam.

PRICES OF MT. ROYAL AND KRIKON
2 to 3 ft., \$1.50 each; 3 to 5 ft., \$1.95 each.



Mt. Royal
Blue Plum

ANDREWS Better Raspberry Plants



Two Million "Better Raspberry Plants" Grown by Andrews

These fields are grown exclusively for plants. Many growers dig only sucker plants from the sides of the row and leave the big plants in the field for their own fruiting. We dig the entire field, including the big husky plants in the center of the rows. You will be pleased with these strong, vigorous plants. You will get the very best that fertile soil, experienced, careful handling and rigid inspection can produce. We supply regularly many of the largest users in the country.

Your Raspberry Success Depends on the Quality of Plants You Start with

ANDREWS RASPBERRY PLANTS ARE A SAFE INVESTMENT

You have good reason to select them and they will bear out your judgment. Briefly it is just this:

1. You get plants grown by specialists. Beginning with the selection of the field on which to produce the plants and continuing through to the final packing out of the finished product, every operation has special care and attention.
2. All plants are carefully inspected during the growing season—twice by our trained men, and twice by the State Nursery Inspection staff. These plants carry the State Certificate of double inspection. No fruiting canes are allowed in our fields—our method sacrifices fruit that we might otherwise harvest, but it produces better plants and it avoids diseases and pests that harbor in fruiting fields, infect the young canes and so are transmitted into the new plantation.
3. These plants are grown on clean, fertile land. This is essential to the production of the best plants. Another factor is that we have the right kind of climate and soil to produce strong, well-matured stock.
4. The fields are big and the rows are long. They are planted with a power machine—cultivated and dug with a power machine. A special digging device was designed to lift the plants without breakage or injury to the roots. This management and handling insures, at low cost, excellent plants with root system impossible in "spade dug" plants from "fence corner" patches.

HEALTHY STOCK ESSENTIAL

The best planting stock obtainable is the **cheapest**. Sucker plants dug from a fruiting patch are dear at any price. Almost invariably they carry some pest or disease which infects the new planting and results in disappointment. The very best grade of clean, healthy, disease-free planting stock is available at a reasonable price. It is folly to start with the handicap of a questionable foundation stock.

ON YOUR RIGHT DECISION RESTS YOUR SUCCESS



WHAT TYPE OF PLANT WILL YOU CHOOSE?

Will it be the clean, well rooted, specially grown and machine dug plants like ours above, or will it be common "spade dug, fruiting row" kind as indicated at the right.

Will it be the kind that insures good stands and profitable crops, or will it be the uncertain "fence corner" kind that results in loss and discouragement?



Common "fence corner" plants spade dug along the fruiting rows. Note the difference in size of plants and amount of roots between these "common" plants and our machine dug plants above.

ANDREWS PLANTS NATIONALLY KNOWN

They are inspected several times each season by the State Nursery Inspector and have been pronounced "**mosaic-free**" and in **excellent condition**. No effort has been spared to produce No. 1 plants. Our climate and soil are ideal for developing vigor and good roots. The special machine used in digging these plants makes possible the excellent root system of our plants. Success with raspberries, as with anything else, depends on getting started on a sure foundation—that is, with **clean, strong, vigorous, disease-free plants**.

DISTANCE APART TO PLANT RASPBERRIES

Hill System. Plant in hills 5 feet apart each way. Set two one-year plants, or one two-year plant per hill. This system requires 3,500 one-year plants or 1,750 two-year plants per acre.

Hedge Row System. Set one-year plants two feet apart, or two-year plants three feet apart in rows six feet apart. This system requires 3,600 one-year plants per acre, or 2,400 two-year plants per acre. Complete instructions sent with each order.

Plant **ANDREWS** Raspberries for Profit



A solid 40 acres of Latham raspberries set with Andrews "Certified" plants.
823 24-pint crates of Latham were picked from this field in one day.

MAKE \$800 PER ACRE

An average yield from "CERTIFIED" RED RASPBERRIES is 150 24-pint crates per acre. Many fields yield 200 crates per acre, and exceptionally good fields in good seasons go as high as 400 crates per acre. Prices vary with the locality and the season. From \$4.00 to \$6.00 a crate is considered a fair price. At only 200 crates per acre and at only \$4.00 per crate, you would have an income of \$800.00 per acre. Many fields have greater records. Mr. Scheuneman of Excelsior reported a 400-crate yield on a 9-year-old planting.



Andrews "Certified" Latham were used in the fruiting fields pictured above

EASY TO GROW

Raspberries are not too particular as to soil and care. However, they will repay extra care and favorable location. They prefer light top soil and heavier subsoil. Elevation or a slope is better than a pocket. They like lots of humus in the soil. Forty loads of manure per acre are not too much.

Complete instructions for planting and care will accompany each order.

IMPORTANT NOTICE

Prof. W. H. Alderman, Chief of Horticulture at the University of Minnesota, commenting in December, 1942, on the raspberry acreage in Minnesota stated that on account of a recent decrease in acreage in other states, Minnesota growers could safely treble the present raspberry acreage. Present prices and prices that may be expected in the next years are very attractive. Growing for the fresh fruit market, canning, or for freezing will be profitable for raspberry growers.

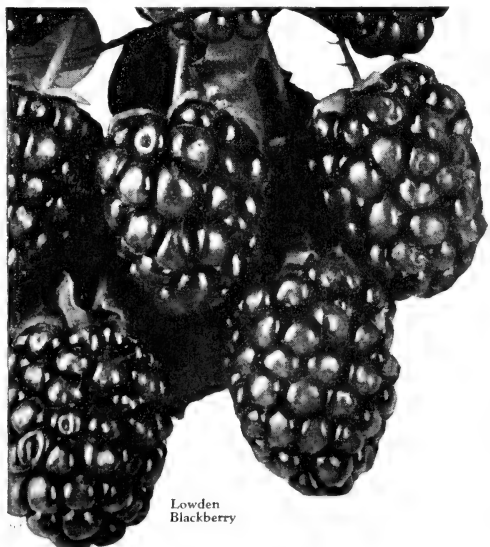
PLANT THIS YEAR



PLANT OUR "2-YEAR HEAVY" and GAIN A YEAR

Our "2-year Heavy" raspberries are especially large, well-rooted plants. The plants are grown one year, then cut back to the ground and grown one year more. This method develops exceptionally strong plants with a 2-year-old root and 1-year-old top. These have a wonderful root system, and give quick results and satisfaction.

RASPBERRY PRICES Page 30



Lowden
Blackberry

BLACKBERRIES and BOYSENBERRIES

NEW LOWDEN BLACKBERRY

This new blackberry was originated in Canada by Mr. Edward Lowden, and all reports indicate it is a decided improvement over older sorts. Mr. Lowden, writing August 18, 1938, reported that he had just finished harvesting the finest crop of the New Lowden Blackberries he had ever grown and that they had sold at prices approximately 50 per cent higher than the prices brought by blackberries of any other sorts.

The general growth, cane and foliage, of Lowden closely resembles Eldorado. The berries are excellent quality, fully as good, if not better, than Eldorado. It ripens at about the same time, but is more dependable and heavier yielding.

The outstanding features of Lowden over other sorts including Alfred, is its prolific fruiting and hardiness. Supply of plants limited this year. Prices, page 30-E.

ALFRED BLACKBERRY

The large, jet-black berries are sweet and juicy, and are often 1½ inches long. It is called the coreless blackberry. For best results in the north we recommend winter protection. It is about a week to 10 days earlier than Eldorado and more productive. Price, page 30-D.

BOYSENBERRY

Said to be a cross between the Loganberry, raspberry and blackberry. A very large berry and very productive. It should be given protection in this northern section. Prices, page 30-F.

ANDREWS Better Raspberry



WILDER MEDAL



MINNESOTA MEDAL

Latham

(Redpath Strain)

Best

★★★

Medium Season
Red Raspberry

**The Only
Raspberry
Ever to
Receive
These
Two
Medals**

CUT GROCERY BILLS

For the price of a few crates of berries you get plants that will give you all the raspberries you need for fresh fruit, for canning, or for freezing.

Cut your grocery bills by "Growing Your Own" Latham.

Thrifty Home Owners Plant Andrews Latham

Why pay 25c or 30c a pint for raspberries at the grocer's when fresher berries can be grown so easily and cheaply at home. It's **thrifty** to "grow your own" raspberries—to have all you want fresh or to can. There is great satisfaction, too, in eating berries of your own growing, picked fresh for each meal. You have no waste or shrinkage, and you get the full delicious flavor.

Successful Fruit Growers Plant Andrews Latham

Because Latham is one of the most profitable raspberries in dollars and cents, it has become the most widely planted and the most popular red raspberry in the United States today. It is a sure cropper and a heavy cropper. The fruit carries well to market and commands a premium. To get these outstanding results, it is, of course, essential to plant the **Genuine Latham** (Redpath Strain) and to secure healthy, "mosaic-free" stock.

Easy to Grow—Early to Bear

Latham does not require expert attention. The plants are vigorous and bear abundantly. A good patch of Latham will last for years. Under good standard practice, they will give substantial pickings the second season.

500 Crates per Acre

The "Minnesota Horticulturist" for January, 1941, in an article discussing the increased raspberry planting in northern Minnesota, reported a yield of **500 crates per acre from the Latham fields** of Chester M. Hjeltna of Polk County. Figured at only the low price of \$4.00 per crate, that would mean a return of **\$2,000.00 per acre**. That's more than many farmers get from 80 acres of other crops and it's more net profit than many get from a quarter section.

LATHAM PRICES on page 30-A

Prof. Alderman Says of Latham:

"Its attractive coloring and firmness give it such favorable appearance on the market that it ordinarily commands a **premium of fifty cents a case** over and above the prices of the ordinary raspberry. I would say that our test plots of red raspberries at the Minnesota State Fruit Breeding Farm have given conclusive proof that **raspberry growing is profitable in this state**. It is **highly important to start with disease-free plants** and follow up with suitable culture. Our test plots under such conditions yielded from 254 to 294 24-pint crates per acre the third season after planting."



PROF. W. H. ALDERMAN
Chief of Horticulture,
University of Minnesota

Plant LATHAM
for Home or Market

Plants Are a Safe Investment . . .

Sunrise

Extra Early! Extra Quality!
RED RASPBERRY

**Thrifty Home
Owners Cut
Grocery Bills by
Planting Sunrise**

U. S. Dept. of Agriculture says of SUNRISE:

"Of most importance from the standpoint of the practical grower perhaps, are the hardiness and resistance to disease of the plants, the earliness and larger size of berry as compared with Ranere, and the better texture and quality as compared with Latham."

**Fruit Growers
Make Extra Money
Planting Sunrise**

Hardiness and Resistance to Disease

Dr. Geo. M. Darrow and Prof. J. Harold Clark

Describe the new SUNRISE raspberry in U. S. Dept. of Agriculture Circular No. 397. SUNRISE is a cross between Ranere and Latham.

About the hardiness and resistance to disease they say: "The SUNRISE has shown resistance to low temperature in midwinter, having come through the winter of 1933-34 at New Brunswick, New Jersey, with practically no injury whereas Latham and some other varieties were severely injured.

"In the winter of 1938-39 in southern New Jersey, the SUNRISE was injured less than either Latham or Ranere by a sudden drop in temperature after a very late growing season. The resistance of SUNRISE to leaf curl and cane diseases is probably an important factor in its ability to withstand low temperature. It has been more resistant than Latham to anthracnose, leaf spot, and spur blight."

Early Berries and Long Season Make Sunrise Ideal Home Berry

PROFESSOR CLARK of the New Jersey Experiment Station writes June 30, 1942: "The special value of SUNRISE is its earliness. This year it was ready for first picking June 8, Chief on June 19, and Latham on June 23. Our earliest commercial variety has been Ranere which was ready to pick this year on June 15.

"SUNRISE has a very long picking season here in New Jersey because it produces a number of long shoots which come from buds near the base of the canes which are much later than the fruiting laterals towards the tips of the canes. In most cases SUNRISE will continue to produce some fruit even after Latham is practically finished."

Early Sunrise Brings Top Price On Market

MR. W. C. BLACK, a prominent New Jersey fruit grower, has been fruiting SUNRISE and has had it under observation for several years. He says under date of July 15, 1940: "SUNRISE is as early as Chief and almost as large as Latham. It is of much better quality than either and the berries do not crumble even when picked before fully ripe. Early pickings from SUNRISE brought 25c a pint."

Good Judgment Recommends Sunrise

These comments from competent and practical men are evidence that this new SUNRISE which has been under test and observation by the U. S. Dept. of Agriculture since 1923 combines the necessary characteristics of a successful berry—EARLINESS and HIGH QUALITY of fruit, HARDINESS and RESISTANCE to DISEASE.

Better Texture and Quality

U. S. Circular 397 describes the quality of SUNRISE as follows: The drupelets are small, making the berry more attractive than Latham. The color is bright red but turns dark red on ripening . . . the berries pick easily. They are firm, fine textured, juicy, non-crumbling, mild sub-acid in flavor with a good raspberry aroma, and better in quality than Latham, and better than Ranere under some conditions.

Earliness and Large Size

Quoting further from U. S. Circular 397 about SUNRISE: "The berries ripen in New Jersey about two days before Ranere. In size they are intermediate between Ranere and Latham but are nearer the size of Latham."

Official records of picking dates show SUNRISE to be 10 to 16 days earlier than Latham.

SUNRISE is

**Easy to Grow
Easy to Eat**

**Easy to Pick
Easy to Sell**

Prices
Page 30-B

Plant SUNRISE
for Home or for Market



ANDREWS STRAWBERRY PLANTS

PREMIER The Most Dependable Early Variety

Heavy Cropper—Frost Resistant

Other varieties have come and gone—but **Premier** still holds its No. 1 position as the most dependable commercial variety, and the most successful home garden variety. Since its introduction over 25 years ago, it has consistently proven that it is practically "frost-proof"—resulting in regular, large crops. Reports of crops of 10,000 quarts per acre are not uncommon.

Attractive—High Quality

Premier berries are of good average size, a medium red color and are very attractive in the package. It is the commercial grower's biggest and most dependable money maker, while being the most satisfactory for the Victory Garden. The Premier does well over a wide range of territory and on almost any soil. Plant Premier this spring to realize quick profits. **Price, page 29-K.**



Premier

DUNLAP

The berries are medium to large, conical and often slightly necked, dark crimson with a deep red flesh, quality very good. The plants are healthy and vigorous. Very productive. Grows on all kinds of soil, and in extremely cold climates. A good variety for canning and a good pollinizer for pistillate varieties. Holds up a long while after being picked. Season a few days after Premier begins bearing. **Prices on page 29-K.**

CATSKILL

A strong, vigorous grower, a sure cropper, and a real money-maker. Catskill is a very large berry, some of them perhaps a trifle rough, but its big size and bright color make it very attractive and in demand on the market. The quality of the berry is good, fully as good as Premier. **Prices on page 29-K.**

BEAVER

Beaver is rapidly becoming popular on account of heavy yield, early season, good color and excellent shipping quality. The fruit is firm, and red clear through, making it especially good for canning, as it retains its color in the can. The flavor is not as high as Premier and Dunlap but the heavy yield and other good qualities make it a desirable strawberry to plant. Beaver is recommended especially for sandy soil, as it appears to do better on sandy soils than on heavy clay. **Prices on page 29-K.**

GEM The Most Practical Everbearing

Gem a Heavy Cropper

Gem is considered by most the most satisfactory everbearing strawberry on the market. Gem bears very heavily—many plantings average a quart to a plant the first year. They get right into high gear—no wasted time. Gem plants set in April or May will bear the same year from July until winter.

High Quality

Gem, in addition to being highly productive, is of very high quality. It is of good size, light in color, very showy and attractive, has very fine rich flavor, and stands up well during shipping.

Victory Gardens

Gem is the perfect berry for the Victory Garden, because of the long season of fruiting and the large number of berries produced. The government urges more fruit for better health. Quick profits can be realized from a planting of the Gem. Don't put it off—this year is the year to plant! **Prices, page 29-K.**

The All-Purpose GARDEN HOE

Lighter - Faster
More Efficient

Once you try this new "All Purpose" hoe you will never go back to the heavy old-fashioned type. It's lighter, faster, more efficient. The ideal hoe for the vegetable garden, perennial border, shrubs or evergreens. Much of your hand weeding can now be done from a standing position.

Its light weight yet sturdy construction makes it easy to handle, and a joy to work with. Enthusiastic gardeners report more accomplished with less fatigue. You, too, will enjoy tilling dandelion and plantain from your lawn with this new hoe. The goose-neck shank permits closer cultivation of shrubs and flowers. Ideal for a gift. Order today.



Only
\$1.20
prepaid.

Protect Your Flowers, Shrubs and Vegetables with BUG-DUST-O-CIDE

Gives A-1 protection to vegetables, plants and flowers from a wide variety of both sucking and chewing insects and certain plant diseases such as powdery mildew and black spot. Bug-Dust-O-Cide is non-poisonous to humans and domestic animals when used as directed. That means you can use it with perfect safety on your vegetables and bush fruits.

PRICES

2½ lbs. Dust and Duster \$1.00
3 lbs. Bug-Dust-O-Cide Dust 1.00
10 lbs. Bug-Dust-O-Cide Dust 3.00

Postpaid



ANDREWS Hardy Hedge Plants

Life in a Goldfish Bowl

Nobody would fancy living in a goldfish bowl. That's why we plant hedges—low hedges in the front yard and tall hedges in the rear yard or outdoor living room. We want privacy in our outdoor rooms as we want privacy in our indoor rooms. Hedges are the walls we use in the outdoor rooms.

For complete privacy in the rear yard use the taller, quick growing varieties, such as **Chinese Hedgewood**, or **Honeysuckle**.

For partial privacy in the front yard to keep out intruders, use the lower growing sorts—**Barberry**, **Caragana Pygmaea**, **Bridal Wreath**, **Chinese Hedgewood**.

If in doubt as to the best hedge for your purpose, feel free to write us. We list below the most dependable.

CHINESE HEDGEWOOD

The Chinese Hedgewood is quite generally recognized as the best all-around hedge plant. It is exceptionally fast growing, good looking, and very low in price.

MAY BE TRIMMED HIGH OR LOW. Forms a dense compact wall suitable for a tall screen to "screen out" unpleasant views and to secure privacy in the outdoor living room, or it may be clipped to make a low formal hedge.

POPULAR AS A LOW BOUNDARY HEDGE between properties for appearance or for protection. Chinese Hedgewood is well adapted to such use. It stands close clipping and makes a clean dense hedge that can be kept at any height.

EXTREMELY HARDY AND DROUGHT RESISTANT. Chinese Hedgewood has proven itself sturdy and dependable even under most trying conditions; withstands 40 degrees below zero of northern winters as well as sweltering temperatures in summer.

BEAUTIFUL FOLIAGE. The small fine leaves are rich bright green, appear early in spring and remain long after most hedges have dropped their foliage.

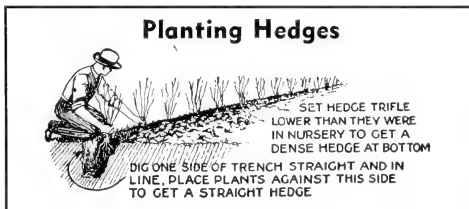
LOW PRICE. We grow **Chinese Hedgewood** in large quantities and are able to sell at an extremely low price. You can now afford the pleasure and protection of hedging about your home. Plant six inches to one foot apart.

Spacing Hedges

Formal hedges that are to be trimmed are generally planted twelve inches apart. These would include the following: Alpine Currant, Japanese Barberry, Buckthorn, Caragana, Chinese Hedgewood, Dwarf Ninebark and Grootendorst Roses.

For taller informal hedges plant about 2½ feet apart. The following are in this group: Honeysuckle, Lilac, Russian Olive, and Spirea Van Houttei.

These simple rules help in creating attractive and beautiful surroundings that add much to the beauty of any home.



Where to Use Hedges

Hedges are one of the most useful factors in the development of home grounds. They serve as walls to cut off some unsightly views—walls that may be covered with gorgeous bloom sometime throughout the growing season. Or, they may be used to divide the outdoor living room into two areas. There are many uses for the hedge and it is one of the most important factors in good plantings. There are tall ones, medium ones, and low ones. You can have a trimmed formal hedge, or an informal untrimmed hedge. You can have one that blossoms or one used for foliage effect only.

Training a Hedge

To make a good hedge one should begin at planting. Dig a trench using a string as a guide. The wall of one side of the trench should be perfectly straight up and down. Hold the hedge plants against this straight side of the wall while planting. Plant 2 inches deeper than they were in the nursery. Spread out roots, cover with dirt and pack soil firmly around roots. The next step and one of the most important is the trimming. A hedge to be thick and full should be cut back to 3 or 6 inches above the ground as soon as planted. Then during the summer at each trimming make the cut 3 or 4 inches higher than the last trimming until the desired height is reached. Only in this way will you have a hedge that will be thick clear to the ground.



CHINESE HEDGEWOOD
Demonstrating Its Usefulness as Both a Tall Screen
and a Low Clipped Hedge

BARBERRY Thunbergii

Of low spreading growth, forming a compact hedge. The foliage is a clean, bright green which turns to a fiery red in the fall. Attractive red berries lend enchantment during the fall and winter.

BUCKTHORN

A veritable super hardy hedge that may be grown as a tall screen or trimmed formally and grown at any height desired. Foliage is a beautiful dark green. The hedge is well adapted to the northwest.

CARAGANA Pygmaea

A new dwarf shrub ideal for a low hedge because it requires little pruning and naturally maintains a dwarf compact shape. The foliage is fine and dense. In spring the hundreds of small golden yellow flowers add much to the interest. Extremely hardy, drought resistant and will grow well in sunny location. Set plants one foot apart.

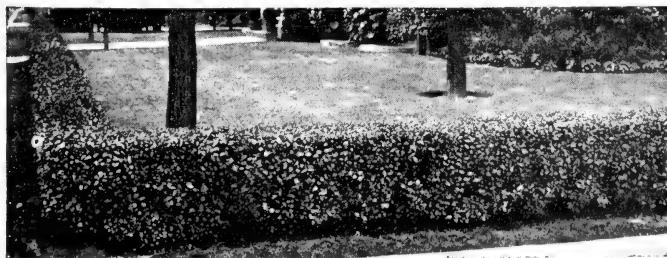
SPIREA VAN HOUTTEI (Bridal Wreath)

The graceful drooping sprays and delicate white flowers have made this plant the most popular where a flowering, untrimmed hedge is desired. Set plants one foot apart.

Prices of Hedging

		10	50	100
Buckthorn trsp.	2- 3 ft.	\$1.95	\$6.95	\$11.85
	18-24 in.	1.35	4.45	7.85
Caragana Pygmaea trsp.	18-24 in.	2.95	9.95	19.95
	12-18 in.	1.85	6.75	11.45
Barberry Thunbergii sdgs.	18-24 in.	1.75	5.85	10.95
	12-18 in.	1.10	3.65	6.95
Chinese Hedgewood	18-24 in.	1.95	6.95	11.85
	12-18 in.	1.10	3.65	6.95
Spirea Van Houttei	2- 3 ft.	3.85	12.95	25.00
	18-24 in.	2.85	9.65	18.00
American Arbor Vitae	12-15 in.	3.75	13.50	24.50
	9-12 in.	3.10	10.25	19.35

Not postpaid.



Buckthorn as a Formally Trimmed Hedge



Red Lake (Actual Size)

LONGER BUNCHES, LARGER BERRIES, EASY TO PICK



Pixwell Gooseberry
Note the long stems, easy to pick.

ANDREWS CURRANTS and GOOSEBERRIES

NEW RED LAKE CURRANT ★★★ OUTSTANDING AMONG NEW FRUITS

The introduction of Red Lake by the Minnesota State Fruit Breeding Farm marks a big step forward in currant culture. It is fast replacing even such standard sorts as Perfection.

The big berries are borne in long bunches, well filled to the tip. Exceptionally long stems make them easy to pick. It ripens in early midseason, but holds on over a long period, thus it can be used or marketed as desired.

The bushes are thrifty and very productive. It's easy to grow—easy to pick—easy to sell.

Read What Authorities Say—

Then Plant Red Lake—for Home or for Market

PROFESSOR ALDERMAN, Chief of Horticulture, University of Minnesota, writes of the **Red Lake Currant**: "Some of its outstanding features which are of interest to commercial growers are the **large, long-stemmed clusters** which are **easy to pick** and increase the speed of picking. The **individual berries are large in size**, resembling those of Perfection, but the **clusters are larger and better than Perfection.**"

PROFESSOR GEO. L. SLATE, of New York Horticultural Station, writes of **Red Lake**: "The characteristics which make this variety worthy of notice are the **long, well-filled clusters of large berries** that are fully equal to those of Perfection and the bushes are much superior to the bushes of that variety. The berries are a **light glossy red** that is attractive, the skin is tough, the flavor pleasantly acid and the **quality excellent**. The long stems facilitate harvesting. At Geneva the bushes are **vigorous, upright, and yield heavy crops.**"

PROF. CLARK, New Jersey: "Red Lake has continued to yield fruit of **large size** borne on **well-filled clusters**. It has been **superior in this respect**, to Fay, Wilder, Perfection and London Market."

ELMER HARALSON, Excelsior: "Sales records show Red Lake brought 25c to \$1.25 more per crate than other varieties."

F. W. MACKEY, New York: "I have set 30 acres of Red Lake."

MORDEN, CANADA, EXPERIMENT STATION: "Most sought after currant in Manitoba."

FRED ULRICH, Rochester. "It cost only half as much to pick."

MR. FRASER, prominent New York fruit grower, writes regarding Red Lake: "The racemes (bunches) grew fully **six inches long**, carrying 20 fruits, some **½ inch in diameter**. There is an inch of neck with no fruit, making them **easy to pick**."

NEWS LETTER from Morden, Manitoba, writes: "Dietitians are confirming the convictions of our grandmothers that **red currants impart a toning up of the whole physical system.**"

PLANT RED LAKE THIS YEAR. Prices on page 29-H.

CASCADE Minn. No. 70 CURRANT ★★★

NEW! EXTRA BIG BERRIES!

Another very outstanding currant recently named and introduced.

Cascade is a splendid companion for Red Lake. It's just as hardy, just as productive, a little larger berry, not quite as long a bunch, has a shorter stem, a little more upright and ripens a week earlier.

Professor Alderman says of Cascade: "A very large fruited red currant with large clusters, very productive; ripens a week earlier than Red Lake."

Stock limited. Order early. Prices on page 29-H.

PIXWELL GOOSEBERRY

This is the new gooseberry originated at the North Dakota Experiment Station. As the name implies, it "picks well." The berries hang on slender stems about 2 inches below the branches. This feature together with the fewness and relative softness of its thorns makes **picking the fruit a quick and easy operation**. Pixwell is absolutely hardy and a good vigorous grower, producing large bushes that carry heavy loads of fruit. The berries are large, oval, an attractive light green color when immature, ripening to pink. The Morden, Manitoba, News Letter of January 7, 1938, says: "Pixwell bore heavily and continues the leading gooseberry for general Manitoba conditions. It is exceedingly vigorous in bush and always bears heavy crops." Plant some of these dependable bushes this year. Foliage colors up to be a most attractive ornamental bush. Price, page 29-I.

CARRIE GOOSEBERRY

An old favorite in the fruit garden, heavy cropper and disease-resistant. Price on page 29-I.

GARDEN ROOTS from ANDREWS

The New Red Rhubarbs

*A Welcome Addition to the Early Spring Diet
Refreshing—Healthful*

Plant the Three Varieties Listed Below

MacDONALD RED RHUBARB

MacDonald is a snappy "new model" rhubarb. The attractive features are the new bright red color combination and a "pick up" that will surprise you. It "gets into high" so quickly that you can cut stalks from it a year sooner than you can from the old style green-stalked varieties.

Another great improvement in the new MacDonald is its excellent quality, sweeter than common rhubarb and requiring less sugar.

Plant some of this splendid red rhubarb this year. It yields heavily and lasts a lifetime. When once you have tried MacDonald you will grow no other.

ENDORSED BY MacDONALD COLLEGE

Prof. L. G. Bunting, MacDonald College, Quebec, where this variety was originated, writes: "MacDonald is very highly colored, attractive, red stalk, of large size, productive, very tender and succulent, and of excellent quality, and particularly valuable for pie and desserts. Its color, when cooked without peeling, is as attractive as that of raspberries."

REQUIRES LESS SUGAR

"Hardy Fruits" Magazine, Winnipeg, Canada, describes MacDonald as follows: "MacDonald requires less sugar for cooking than any of the old standard varieties." Prices on page 30-G.

RUBY RED RHUBARB

Another new red rhubarb introduced from Canada. The stalks are intensely red as the name implies—even the inside of the stalk is red. Rhubarb sauce made from Ruby is as red as strawberry sauce. The skin is so tender it can be cooked with the stalk. Both Ruby and MacDonald are money-makers on the market because they sell on sight at a premium over common rhubarb. Prices on page 30-G.

CANADA RED RHUBARB

A brand new rhubarb imported from Canada. Stems dark red clear to heart and up in the leaf. Produces the sweetest and finest flavored, most beautiful red sauce. Stock limited. Prices, page 30-G.

RED RHUBARB RECIPES

RED RHUBARB SAUCE

Wash, do not peel. Cut in 1/2-inch pieces. To 4 cups of red rhubarb pour boiling water over the rhubarb, let stand 5 minutes, drain, and use only 1 1/2 cups sugar. Place in saucepan with just enough water to keep it from burning; cook until soft. Flavor with the grated yellow rind of orange. Or, boil 2 cups sugar and 1 cup water to a syrup, add rhubarb, let boil a few minutes until tender, but not broken.

RED RHUBARB PIE

3 cups red rhubarb	2 tablespoons cornstarch
1 1/2 cups sugar	1 egg, slightly beaten

Line a pie plate with cookie dough. Cut rhubarb in 1/4-inch pieces; sprinkle with cornstarch. Mix all together, turn into lined pie plate. Bake in a hot oven 30 minutes at 425° F.; then reduce to 325° F. Mix equal parts rhubarb and strawberry for variety.

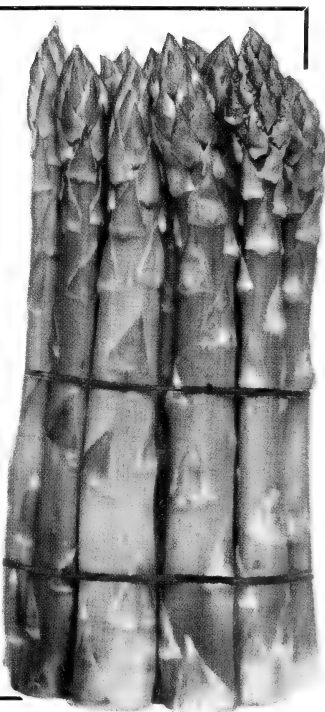
Full Directions for Planting With Every Order



MacDonald Red Rhubarb Four Months After Planting. Large, Crisp, Tender Stalks

PARADISE ASPARAGUS

Produces a normal crop one year earlier than any other variety. Growers who have seen this asparagus growing have been amazed to see the straight, crisp, large stalks that were produced from plants set only the year before. An exceptionally strong, vigorous producer. Some growers say it produces twice the crop of ordinary asparagus. Only six to eight stalks needed to make a pound. This variety is every bit as rust-resistant as the Martha Washington. Has an unusually pleasant, milder flavor than ordinary asparagus and is preferred by most who taste it. With today's trend of freezing vegetables for the market, it has another distinct advantage because it retains its fresh flavor after freezing. Because it brings returns one year earlier and because of its great size, large crop, and fine, mild flavor, this NEW variety will quickly supersede all others for home-garden use, commercial production and shippers. Prices on page 29-J.



ANDREWS Money Saving Shelter Belts



Three-year-old windbreak at Madelia, Minn. Planted with Andrews' fast-growing, hardy Ash



Left—100 18-24 in. Andrews Chinese Elm
Right—100 24-30 in. Andrews Chinese Elm

Giant Windbreak Special

25 Green Ash
25 American Elm
25 Soft Maple
25 Golden Willow

100 Trees, 3-4 ft. Value \$8.59.

Only \$6.65

Farm Windbreak Special

75 Green Ash
75 American Elm
50 Soft Maple

200 Trees, 2-3 ft. Value \$7.80.

Only \$5.65

200 Trees, 18-24 in. Size.
Value \$5.40.

Only \$4.25

Andrews Northern Strain Shelterbelts

		50	100	200	500	1000
GREEN ASH AMERICAN ELM CHINESE ELM SOFT MAPLE	6-12 in.	Prepaid	\$1.25	\$2.35	\$3.85	\$7.95
	12-18 in.	Prepaid	\$1.25	\$2.35	\$3.85	\$7.95
	18-24 in.	Not ppd.	1.35	2.55	4.25	8.95
	2-3 ft.	Not ppd.	1.95	3.55	6.85	14.85
	3-4 ft.	Not ppd.	3.65	6.25	11.85	24.85
	4-5 ft.	Not ppd.	4.95	9.25	17.85	35.00
RUSSIAN OLIVE	6-12 in.	Prepaid	1.65	2.65	4.95	9.50
	12-18 in.	Prepaid	1.95	3.55	6.85	14.85
NORWAY POPLAR	2-3 ft.	Not ppd.	4.25	7.65		
	3-4 ft.	Not ppd.	5.35	9.65		
BLACK WALNUT	18-24 in.	Not ppd.	4.95	9.25		
	2-3 ft.	Not ppd.	6.95	12.25		
	3-4 ft.	Not ppd.	8.25	15.65		
RUSSIAN GOLDEN WILLOW	2-3 ft.	Not ppd.	3.85	6.85		
	3-4 ft.	Not ppd.	4.85	8.65		

ANDREWS WINDBREAK PLANNING SERVICE

This new service will help you plan your windbreak, by selecting the proper varieties for your soil and conditions, by laying out the planting areas showing locations of all plants and trees necessary for the building of this windbreak. A detailed estimate sheet will accompany the plans to show sizes of plant material and the cost of the various sizes. With these plans you will have complete information for establishing your windbreak. An investment in a windbreak will bring you greater returns than the same money invested in any other part of your farm. You can well afford to make a substantial investment in a windbreak. A good windbreak is an "A-A-1" investment. It will save you fuel and feed; help you produce better livestock; increase your income; eliminate drifting snow and protect your buildings and grounds.

To take advantage of this service, send in a sketch of your farm drawn to scale, showing location of buildings, drives and fields. Indicate the directions of the compass. We must also know the type of soil and the amount of money you can devote to this important improvement.

A small charge of \$2.50 is made for this service. However, this amount is credited on windbreak orders of \$25.00 or more. So this windbreak planning service really costs you nothing.

ASH. Most dependable of all trees for the windbreak or wood lot. Quick growing, long lived and excellent for lumber or fence posts. Will grow on almost any soil. Our strain of ash is a hardy Dakota strain that has proven to be drought resistant.

AMERICAN ELM. Selected upland strain. Recommended by the Conservation Department for shelter-belts and woodlots. Very hardy, long lived, beautiful. Will grow on almost any soil. Drought resistant.

CHINESE ELM. Hardy Siberian strain. Grows rapidly even on poor soil. Low growing and dense branching habit makes our Siberian strain of Chinese Elm one of the very best windbreak trees to stop ground sweep of wind and drifting snow.

SOFT MAPLE. Hardy, fast growing, especially on good soil. Gives almost immediate effect because of its rapid growth and fine foliage. Sometimes called Silver Maple.

RUSSIAN OLIVE. True Mennonite strain. Fast grower; stands extremes of heat and cold. Excellent for the outside rows as a snow catch. Very attractive because of silver-colored foliage.

NORWAY POPLAR. Its hardiness together with its rapid growth make this variety outstanding for windbreak planting. Grows well on any soil.

BLACK WALNUT. Grown from our native seed. Good in the shelterbelt and the nuts are excellent for cooking. The lumber being of highest quality brings a good price on the market.

RUSSIAN GOLDEN WILLOW. This fast growing willow has attractive bright yellow bark. They are especially fine when planted in masses and are very colorful in winter. Hardy anywhere.

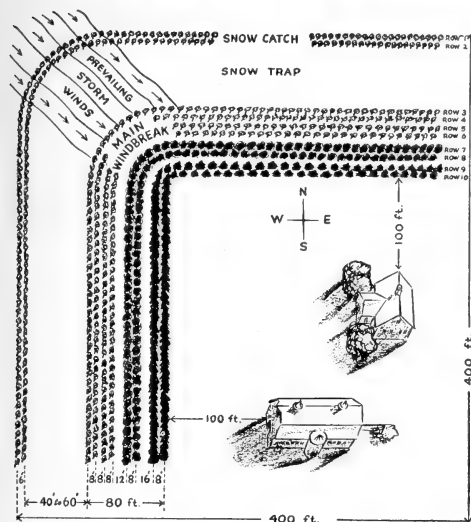
Steers Protected by Windbreak Made \$243.00 More Profit!

Comparative tests have proven that farm products can be produced at less cost in farmyards protected by windbreaks. In the case of beef—2 lots of 50 steers each, one lot fed in a protected yard, the other not protected by a windbreak. Those in the protected yard had the same kind and amount of feed as others, but gained 2,250 pounds more. Sold at \$10.80 per hundred, this lot brought extra return of \$243.00.



3-YEAR-OLD CHINESE ELM WINDBREAK
Chinese Elm give immediate effect as well as a permanent planting

ANDREWS "Common-Sense" Shelterbelts



VARIETIES SUITABLE FOR EACH ROW
 Rows 1 and 2.....Chinese Elm or Caragana
 Row 3.....Chinese Elm
 Rows 4, 5, 6.....American Elm or Ash or Soft Maple
 Rows 7, 8.....Evergreens
 Rows 9, 10.....Evergreens

WAR on WASTE!

Prevent wasted feed and wasted fuel. Plant a **VICTORY SHELTERBELT** this spring. There are no priorities and no rationing on these money-saving farm improvements.

EVERGREENS FOR SHELTERBELTS AND WINDBREAKS

AMERICAN ARBOR-VITAE

A popular, thick compact-growing evergreen; excellent as a year-around hedge or as a windbreaker and snow stopper. Used extensively in the outside row or two of windbreak plantings because of its tendency to keep its branches very close to the ground. Does the best in fairly moist soil.

DOUGLAS FIR

This variety has everything you want in a good windbreak tree. It's hardy, it's quick to grow, the foliage is thick and dense and it will grow anywhere, except in a very wet soil. It is truly one of the best for windbreaks or reforestation.

SCOTCH PINE

Hardy, quick and durable. Will grow on any soil and is fine for windbreak planting.

BLACK HILLS SPRUCE

A very good, compact evergreen, quite drought resistant, next in value to Ponderosa Pine and Blue Spruce for windbreaks.

COLORADO BLUE SPRUCE

A beautiful tree. Drought resistant and recommended especially for the inside row of the evergreen windbreak.

	Size	10	25	50	100
9-12"	Transplanted	Prepaid . . \$3.25	\$ 6.35	\$10.65	\$19.85
12-15"	Transplanted	Not ppd. . . 3.75	7.50	13.50	24.50

9-12"	Transplanted	Prepaid . . 3.50	7.65	14.85
12-15"	Transplanted	Not ppd. . . 4.50	10.85	21.50
15-18"	Transplanted	Not ppd. . . 5.50	12.85	25.50

15-18"	Transplanted	Not ppd. . . 3.25	6.35	10.65	19.85
18-24"	Transplanted	Not ppd. . . 3.75	7.50	13.50	24.50

9-12"	Transplanted	Prepaid . . 3.50	7.65	14.85	30.00
12-15"	Transplanted	Not ppd. . . 4.50	10.85	21.50	40.00
15-18"	Transplanted	Not ppd. . . 5.50	12.85	25.50	50.00

9-12"	Transplanted	Prepaid . . 3.25	6.35	10.65	19.85
12-15"	Transplanted	Not ppd. . . 3.75	7.50	13.50	24.50
15-18"	Transplanted	Not ppd. . . 4.95	9.85	18.50	35.00



Colorado Blue Spruce form a magnificent windbreak. Beautiful, drought-resisting, fuel-saving, feed-saving

Instructions for Planting

The soil in the space to be planted should be well prepared as you would for any farm crop. Plant trees as early in spring as possible. Potatoes or vegetables may be planted between the tree rows for two or three years. Cultivate trees as often as possible in the spring and summer but not after the first of August. The snow trap may be planted to corn, potatoes, or any farm crop.

Evergreens in sizes marked **TR** (transplanted) may be set out directly into the windbreak row and cultivated as you would rows of corn. Evergreens in sizes marked **S** (seedlings) should be set in the garden where you can give them special attention the first two years, then reset them into the permanent windbreak.

Recommended Spacing and Arrangement

Four to eight rows of trees are recommended on the north and west—2 to 4 rows on south and east. The recommended spacing is to plant 2 rows of **Caragana** on the outside to form a snowbreak. Plant 4 feet apart in the row and 8 feet between rows.

Leave 60 feet for a snow trap, then plant 4 rows of **Green Ash**, **Chinese Elm**, and **American Elm**, spaced 6 feet apart in the row and 8 feet between rows.

Inside, plant 2 rows of evergreens 8 to 10 feet apart in the row and 16 feet between rows. The inside row of evergreens should be 100 feet from the farm buildings. This space and the snow trap give ample space to drop the snow and leave the buildings and yards free from drifts.

For solid woodlot planting, set trees 8 to 9 feet apart each way. Ash, Elm, Norway Poplar, and Black Walnut are especially recommended for woodlot planting.

ANDREWS Money-Saving SHELTERBELTS

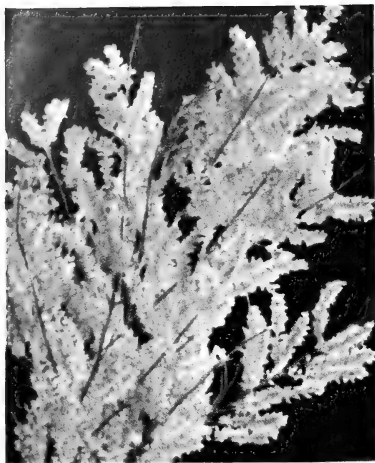
Good windbreaks really cost you nothing—save feed—save fuel—save shoveling snow—screen unsightly views.

You paid for a windbreak last year. Did you get one? If you do not have a windbreak you wasted enough fuel and feed to pay for one last year. Why go on longer buying more fuel than you need or feeding your livestock longer than necessary.

If your herd is protected, the food they eat turns into fat. The cows will give more milk, the chickens lay more eggs and the pigs will put fat on in a hurry. It's all because they are behind a good windbreak and do not have to use what they eat to keep them warm.



For Winter Protection Choose an Evergreen Windbreak



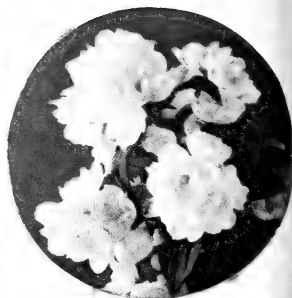
Tamarix



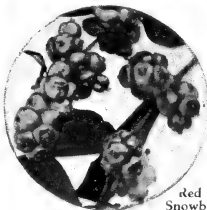
White Snowberry



High Bush Cranberry



Philadelphus, Virginal



Red Snowberry

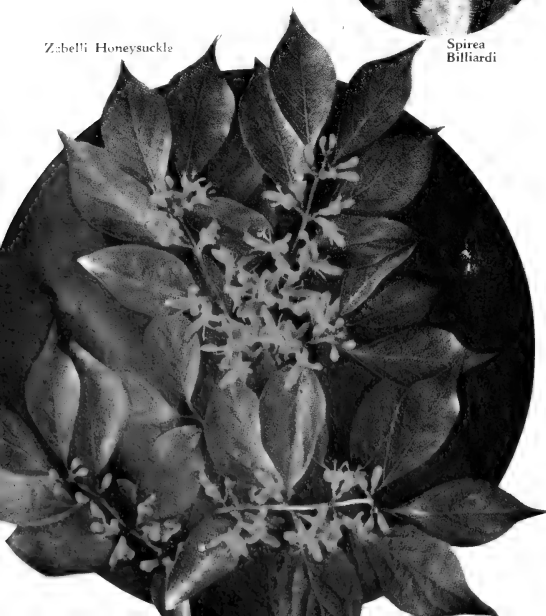


Rose Tree of China



Spirea Billardi

Zabell's Honeysuckle



BEAUTIFUL HOME GROUNDS REALLY COST YOU NOTHING
Well-selected plantings add more to the value of your property than the small cost of the trees or shrubs you plant.

Beautify Your

WITH ANDREWS

Where to Plant

Along the foundation of the house, in the corners of the walk, along the borders of the lot, and enclose the "back lawn" to make an Outdoor Living Room. Plant in groups so they will appear natural.

The shrubs described are dependable in this climate. Many more less desirable could be included, but this is a selected list that will give you satisfaction. Plant freely as the prices are extremely low this year and you can get a splendid assortment for a small sum. Group dwarf shrubs 1 to 2 feet apart; medium sized shrubs 2 to 3 feet apart; and tall shrubs 3 to 4 feet apart. Complete instructions telling how to plant, prune and spray accompany each order.

Ultimate height is designated after name of each shrub.

BARBERRY, Thunbergi. 2 ft.

Thunberg's Barberry, entirely free from rust; may be planted in any state. A beautiful dwarf shrub for foundation planting, bordering shrub masses, or for informal low hedge. Foliage,

bright green; reddish bronze autumn color. Colors are brighter in sunny location. The bright red berries remain on through the winter.

BARBERRY, Red Leaf. 2 ft. This is the red form of the Thunbergi Barberry.

Planted in a sunny location, its rich red foliage makes a striking appearance.

BUSH CHERRY, Ornamental. 3 to 4 ft. This new and very unusual bush has pinkish blush blossoms in the spring, followed during the summer by dark red cherries which ripen over a six weeks' period. In the fall the foliage turns a beautiful scarlet, thus being of interest during the entire growing season.

CARAGANA (Siberian Pea Tree). 10 to 12 ft. Early bright yellow flowers.

Gray-green foliage. Extremely hardy.

COTONEASTER. 5 to 6 ft. Dark green, glossy foliage turning to bronze in autumn. Useful as a shrub or as a formal hedge. Does well in shade. The black berries hang on all winter.

CRANBERRY, High Bush. 6 to 7 ft. An upright, handsome shrub. The bright red berries hang on throughout the winter.

DOGWOOD, Red Twig. 6 to 7 ft. Spreading habit, bright red bark, excellent for winter color.

ELDERBERRY, Golden Leaf. 6 to 7 ft. Bright golden yellow foliage throughout the summer. The large white flower heads appear in July, followed by black berries on which birds like to feed.

FORSYTHIA (Golden Bell). 5 to 6 ft. Beautiful early flowering shrub. The hundreds of yellow flowers appear before the leaves in the spring. Forsythia will stand semi-shade.

HONEYSUCKLE, Morrow's. 5 to 6 ft. Semi-spreading, light foliage, red fruit, white flowers.

HONEYSUCKLE, Red Bush. 8 to 10 ft. The red flowers appear in May, followed by red berries ripening in midsummer, and clinging to the bush for weeks. Attractive to birds.

HONEYSUCKLE, Zabellii. New! Outstanding! Darkest red flowers of all the honeysuckles. Blooming in May, the flowers are followed by bright red berries. A beautiful and attractive shrub.

HYDRANGEA, A. G. 3 to 4 ft. Snowhill Hydrangea, large showy blooms in July and August. Will do well in a shady location.

HYDRANGEA, P. G. 3 to 4 ft. The old-fashioned large flowered Hydrangea blooming in September; turns pink later. The blossom heads may be dried for winter bouquets.

Prices, see page 30-H.

PLANT DUAL PURPOSE SHRUBS THIS YEAR

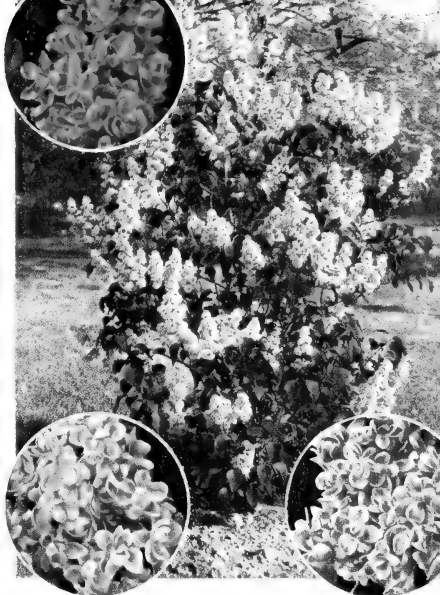
Beautiful shrubs which yield loads of fruit useful for canning.
Plant Nanking and Korean Cherries, Pixwell Gooseberries, Highbush Cranberries, Beacon Apple and Dolgo Crabs in your landscape plantings for fruit and beauty.



New Red Flash



Forsythia



French Lilacs

Home Grounds

Enjoy Beautiful
Grounds
Plant This Spring

FLOWERING SHRUBS

LILAC, French. 6 to 8 ft. The most gorgeous flowers of all large blooming shrubs. Do not sucker profusely like common lilac.

Alphonse Lavalle. Double flowers of a lovely blue shade.

Chas. Joly. Double dark purplish red flowers.

Ludwig Spaeth. Single. Long heads of very dark purple flowers.

Mme. Lemoine. Double, pure white, beautiful contrast with darker colors.

LILAC, Red Persian. The late Prof. S. B. Green considered this the most beautiful lilac in cultivation.

MAY DAY TREE. 10 to 12 ft. Covered with cream-colored flowers before leaves early in May. Very fragrant. Birds relish the bright red berries.

MOCK ORANGE. 8 to 10 ft. Semi-spreading large shrub. Very fragrant.

MOCK ORANGE, Virginal. 6 to 7 ft. Double mock orange. Blooms from June on. Beautiful double flowers of orange blossom fragrance. Fine for the border or as single specimens. One of the newer shrubs. Supply limited.

NINEBARK, Dwarf. 3 to 4 ft. Beautiful new dwarf shrub. The white flowers in June are followed by pinkish fruit that forms yellowish seed pods as they ripen. Does well on all soils.

"RED FLASH" (cistena). 4 to 5 ft. The delicate pink bloom which appears early in the spring is followed by rich leaves that last through the season. The most brilliant of all red-leaved shrubs. Cannot be surpassed for yard or foundation planting. For most vivid color plant where it will get full sunlight.

ROSE TREE OF CHINA. 6 to 7 ft. The earliest flowering hardy shrub of deep pink. Double blossoms appear in great profusion before the leaves, completely covering the branches with what appear like small pink roses.

RUSSIAN OLIVE. 10 to 12 ft. A gray-green foliage plant. Splendid in background screen plantings.

SILVERBERRY. 4 to 5 ft. A sensational new shrub with strikingly beautiful silver foliage. This shrub gives extreme contrast when planted with "Red Flash" and Golden Elder; as a background shrub for Red Leaf Barberry or Euonymus. Silver berries in late summer or early fall hang on into winter.

SNOWBERRY, Red. 3 to 4 ft. Dwarf foundation shrubs with fine, thick foliage. The red fruit clusters thickly along the branches, presenting a very attractive appearance. Fine companion plant for the White Snowberry.

SNOWBERRY, White. 2 to 3 ft. Of compact form and semi-dwarf habit. Does well anywhere but particularly in shade. Rose-pink flowers in June and July, followed by large pearly white berries which remain a long time.

SPIREA, Anthony Waterer. 18 to 36 in. Excellent for border and low foundation planting. Blooms freely in July.

SPIREA, Billardi. 3 to 4 ft. A shrub of exquisite beauty, having tall spikes of deep pink flowers which bloom in July and August.

SPIREA, Froebel's. 18 to 24 in. Dwarf shrub for low plantings. Flowers bright, rosy red in flat clusters produced during July and August. Foliage purple-red in early spring and again in late fall.

SPIREA, Snow Garland (Arguta). 4 to 5 ft. The habit of covering the branches with pure white flowers gives this shrub the popular name. The branches look like garlands of snow. The earliest blooming spirea.

SPIREA, Van Houttei (Bridal Wreath). 5 to 6 ft. The most popular shrub, useful in foundation and border plantings.

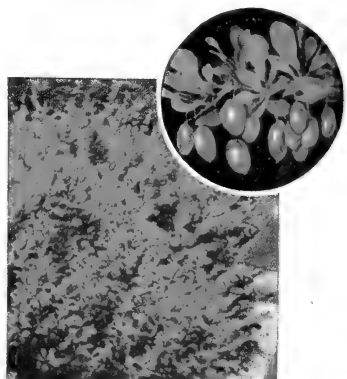
TAMARIX (Lace Tree). 6 to 7 ft. A beautiful shrub with lacelike foliage. Bluish gray with large clusters of pink flowers. A popular shrub.

WEIGELA, Eva Rathke. 4 to 5 ft. A beautiful pink-flowered shrub, good in borders. Flowers profusely.

ANDREWS Landscape Service

Do You Need Help
to Plan Your Home
Planting?

If a detailed landscape planting plan is desired drawn to scale and designating the location of each shrub or tree, we offer our customers the aid of our landscape draftsmen. A small charge of \$5.00 is made for a plan for ordinary sized grounds, larger grounds in proportion. Send complete measurements, location of buildings, drives, etc. This \$5.00 for landscape plan may be deducted if an order for nursery stock is placed with us amounting to \$45.00 or over the same season. No detailed plans can be prepared after April 1st on account of time.



Red-Leaf Barberry

Hydrangea P. G.



ANDREWS EVERGREEN PLANTINGS



1—Am. Arbor-Vitae 2—Siberian Arbor-Vitae 3—Mugho Pins 4—Pyramidal Arbor-Vitae
5 and 7—Globe Arbor-Vitae 8—Savin Juniper 9—Mugho Pine

Our New "Individually Wrapped" Evergreen Service

In past years, we have shipped many hundreds of individually wrapped evergreens to our customers. These trees are carefully dug, and immediately the roots are dipped into thick moisture-retaining mud and then each tree individually wrapped in sphagnum moss.

Wrapping this way enables shipments to be made by express, thus you receive the trees almost overnight from the nursery.

Planting these individually wrapped trees is very easy. The holes should be dug before the trees arrive. If soil is dry, fill holes twice with water and let it soak in. Plant in good growing soil, such as you would grow garden crops in. Do not expose roots to the air. Leave trees wrapped until ready to plant, then unwrap and put in a nail of water for 15 or 20 minutes. Plant immediately upon removing from water.

Plant from 2 to 6 inches deeper than they were in the nursery. Spread out roots to their natural position. Cover with soil and pack the soil solid among and over the roots to avoid any air spaces. Leave top 2 inches of soil loose to prevent evaporation.

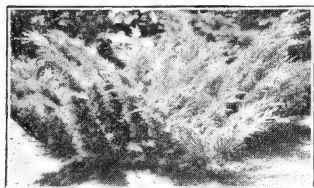
The first season, water thoroughly regularly once a week, and cultivate soil around trees to keep soil free from weeds.

This service of individually wrapping our specimen evergreens is being given **without extra charge**.

Order your specimen evergreens this way by express.



THE NEW
WAY
Dug bare rooted. All the fine roots are retained.



Savin Juniper



Pfitzer Juniper

JUNIPER

ANDORRA JUNIPER. Most popular of all low spreading evergreens. Excellent to plant in front of an evergreen foundation planting, in the rock garden or on a steep terrace. After the first frost the color changes from a beautiful silvery green to a silvery purple or pinkish shade. Hardy anywhere.

PFTIZER JUNIPER. One of the finest of the low growing varieties. Wide spreading, bushy habit, gray-green foliage with feathery appearance. Exceptionally hardy and especially adaptable to low group plantings, as a plant in foundation plantings or for rock gardens.

SAVIN JUNIPER. A half erect or partly spreading, fanlike evergreen with rich, unchanging dark green foliage. Excellent for foundation plantings or rock gardens. Savin does especially well in smoky areas and is an evergreen that will stand heavy trimming.

SILVER JUNIPER. Tall slender pyramids of regular shape and light silvery color. Extremely hardy and easily established. Its striking appearance makes it of outstanding value as an ornamental evergreen, either as an accent in the foundation or as a specimen. Coming from the mountains in Colorado it is accustomed to the high dry soil and will do well on the lighter types of soil in many communities. This variety has been one of the most popular the past several years.

NEW GRAFTED JUNIPERS

CHANDLER'S SILVER JUNIPER. A selected variety of Colorado Juniper with medium habit of growth. This fine new variety has a bluish silver foliage that holds its color throughout the winter. May be sheared or grown naturally. Excellent for foundation planting. Hardy.

DUNDEE JUNIPER. A grafted variety of the Virginiana Juniper. It is a thick, compact growing variety, that is dark green in the growing season, turning plum-purple in the winter. A popular, slender type for both foundation and specimen planting. Hardy almost anywhere.

EXTRA GREEN JUNIPER. A grafted variety of Colorado Juniper. One of the most compact of all varieties. A bluish green in color with a broad base which makes it excellent for corner plantings.

SUTHERLAND JUNIPER. A grafted variety of Colorado Juniper. Excellent for entrance plantings because of its dark green compact spirallike growth. One of the most popular.

SPRUCE

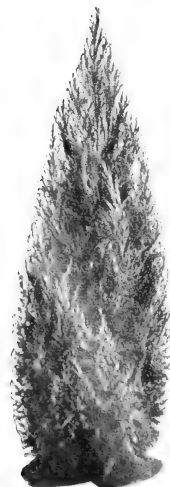
BLACK HILLS SPRUCE. Perfectly symmetrical, with heavy, thick foliage, somewhat bluish. Extremely hardy and easy to establish. Ideal for specimen planting and one of the best for windbreaks.

COLORADO BLUE SPRUCE (Picea pungens). A magnificent evergreen with lustrous foliage of varying tones, sometimes deep green, sometimes touched with silver and others have a decided blue tinge. These trees are all grown from seed of select blue shiners. We do not guarantee them as to color, but many, especially in the smaller sizes, will develop into very fine specimens if given time and good care.

COLORADO BLUE SPRUCE SHINERS (Picea pungens glauca). "Extra Blue" trees with heavy lustrous foliage of glorious silver and blue tones. The real aristocrat of all trees. There is nothing more beautiful than our "Colorado Shiners."

FIR

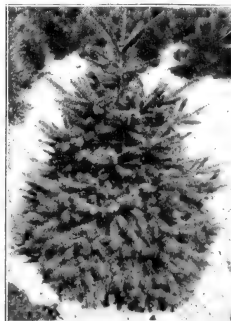
DOUGLAS FIR. This popular tree with its dark green foliage is excellent for lawn plantings or as a specimen at the house corners in the foundation planting. It may be sheared or grown naturally.



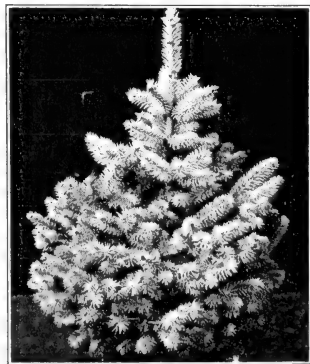
Chandler's
Silver Juniper



Scotch Pine



Black Hills Spruce



Colorado Blue Spruce

ARBOR-VITAE



Pyramidal
Arbor-Vitae

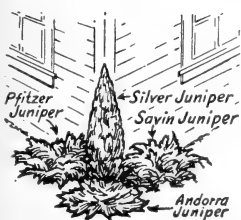
AMERICAN ARBOR-VITAE. A very popular evergreen for the corners of the foundation, for hedge, screen, or lawn specimen. Thick and compact with a broad base tapering to a point. By constant shearing we have developed specimens that will please you.

PYRAMIDAL ARBOR-VITAE. Beautiful dark green columnar shaped trees with very dense foliage. Use for accent in foundation plantings or as specimens. There is no evergreen that gives the finishing touch to a formal planting as does the Pyramidal Arbor-Vitae, their graceful branches blowing in the wind give an effect unattained by any other evergreen.

SIBERIAN ARBOR-VITAE. This compact cone-shaped evergreen of semi-dwarf growth with its dark green foliage is ideal for foundation plantings, or in mass plantings. It has one advantage not possessed by some other evergreens, in that it keeps its deep rich green color throughout the winter.



Siberian Juniper
Pfitzer Juniper Savin Juniper
Andorra Juniper Mugho Pine



EVERGREEN CORNER PLANTING

The group at the left is for a modern evergreen "corner planting." All varieties are sturdy and dependable. See special price on this combination.

SPECIAL CORNER PLANTING

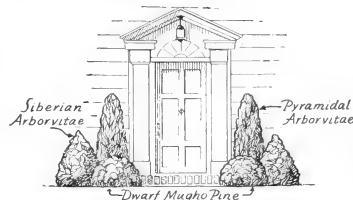
- 1 Silver Juniper
- 1 Pfitzer Juniper
- 1 Savin Juniper
- 1 Andorra Juniper

Junior
Size

ONLY \$4.25

ENTRANCE PLANTING

Select for your home an evergreen entrance planting like this one. If your soil is heavy this arrangement will do very well, but if your soil is of the lighter type, we would suggest two Silver Junipers, in place of the Pyramidal Arbor-Vitae; two Pfitzer Junipers instead of the Siberian Arbor-Vitae. Special prices below.



SPECIAL ENTRANCE PLANTING

- 2 Mugho Pine
- 2 Pyramidal Arbor-Vitae
- 2 Siberian Arbor-Vitae

Junior
Size

ONLY \$7.75

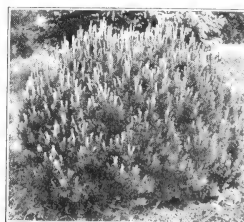
	Junior Size (Wrapped in Moss)	Medium Master Size	Master Select, B&B
	Size Each 18-24 in. \$1.35	Size Each 2-3 ft. 3.25 3-4 ft. 3.50	Size Each 2-3 ft. \$3.75 3-4 ft. 4.50
American Arbor-Vitae			
Pyramidal Arbor-Vitae	18-24 in. 1.45	2-3 ft. 3.25 3-4 ft. 4.75	2-3 ft. 5.60 3-4 ft. 7.20
Siberian Arbor-Vitae	15-18 in. 1.75	18-24 in. 2.75 30-36 in. 3.50 18-24 in. 3.65	18-24 in. 4.00 30-36 in. 4.80 18-24 in. 4.80
Douglas Fir			
Andorra Juniper	12-15 in. 1.25	15-18 in. 2.35 18-24 in. 2.95	15-18 in. 4.00 18-24 in. 4.80
Pfitzer Juniper	12-15 in. 1.45	15-18 in. 2.75 18-24 in. 3.65	15-18 in. 4.00 18-24 in. 4.80
Savin Juniper	12-15 in. 1.25	15-18 in. 2.35 18-24 in. 2.95	15-18 in. 4.00 18-24 in. 4.80
Silver Juniper	18-24 in. 1.35	2-3 ft. 3.25 3-4 ft. 3.95	2-3 ft. 4.80 3-4 ft. 6.80
Chandler's Silver Juniper			24-30 in. 4.80 30-36 in. 6.00
Dundee Juniper			24-30 in. 4.80 30-36 in. 6.00
Extra Green Juniper			30-36 in. 6.00 3-4 ft. 6.80
Sutherland Juniper			24-30 in. 5.20 30-36 in. 6.40
Mugho Pine	12-15 in. 1.65	15-18 in. 3.45 18-24 in. 3.95	15-18 in. 4.80 18-24 in. 6.00
Ponderosa Pine		30-36 in. 2.60	30-36 in. 4.00
Scotch Pine		30-36 in. 2.60 3-4 ft. 3.95	30-36 in. 4.00 3-4 ft. 6.00
Black Hills Spruce		30-36 in. 4.20 3-4 ft. 4.95	30-36 in. 6.00 3-4 ft. 7.25
Colorado Blue Spruce	12-15 in. 1.65 15-18 in. 1.85	18-24 in. 3.45 24-30 in. 4.50	18-24 in. 4.00 24-30 in. 5.20
Colorado Blue Spruce Shiners, B&B		15-18 in. 4.45 18-24 in. 6.50	15-18 in. 4.80 18-24 in. 6.85

PINE

DWARF MUGHO PINE. These low ball-shaped little evergreens are ideal for foundations or mass plantings. In the spring the new growth looks like multitudes of tiny candles. Very hardy and useful.

PONDEROSA PINE combines both strength and massiveness. Because of its exceptionally thick, deep rich green foliage and long needles, which are longer than on any other variety, it is excellent as a specimen for your lawn or to use as a solid screen planting. Absolutely hardy anywhere.

SCOTCH PINE. This variety is always a favorite with planters. A thick, stocky rounded bushy tree when young, developing into a more rugged picturesque shape as the tree reaches maturity. Will do well in any soil. Is one of the best for windbreaks or for reforestation.



Mugho Pine



American Arbor-Vitae

HARDY ROSES

*for Beauty
Throughout the
Summer*

Hansa

A selected list of the most desirable roses for the northern district. All prepaid.

HARDY RUGOSA ROSES ESKIMO BEAUTIES

This group of roses is most dependable of all, thriving even in Canada and the Dakotas without winter protection. They bloom from June until the ground freezes in the fall. Foliage thick dark green.

AMELIE GRAVEREAUX. Carmine-red, long stem, excellent for cutting. Select grade only.

F. J. GROOTENDORST. Bright red, profuse blooms in clusters, outstanding for hedge planting.

HANSA. Extra hardy, large double dark crimson flowers, fine foliage.

DR. ECKENER. Salmon-pink with golden base, blooms resemble hybrid teas. Vigorous and hardy. Select grade only.

SIR THOMAS LIPTON. Snowy white flowers. Select grade only.

BELLE POITEVINE. Beautiful bright pink flowers that are produced in clusters—free blooming.

Frau Karl Druschki

SPECIAL ROSES

GRUSS AN TEPLITZ. Medium sized, dark maroon, blooms in clusters, very hardy.

FRAU KARL DRUSCHKI. Large snow-white, free bloomer, very popular.

GENERAL JACQUEMINOT. The old favorite, large crimson-red flowers. Select grade only.

TALISMAN. Orange gold and rosy red, one of the most popular for cut flowers. Everblooming.

CLIMBING ROSES

DOROTHY PERKINS. Soft shell-pink flowers in great clusters.

PAUL'S SCARLET. Large vivid red, well-shaped flowers. Best red.

ROSE PRICES

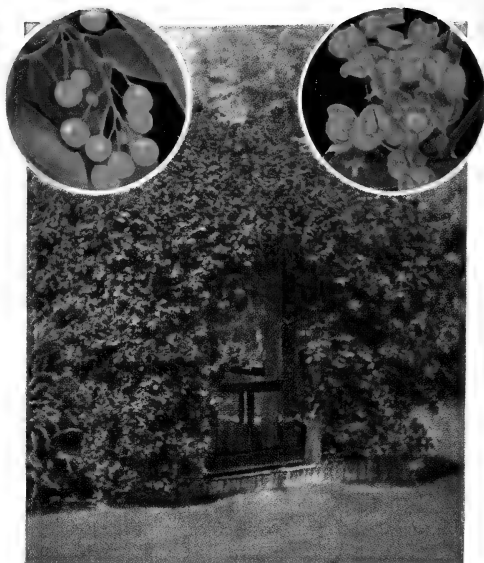
	Select Grade Each	Standard Grade Each
Amelie Graveaux	\$1.35	
F. J. Grootendorst	1.25	.75
Hansa	1.00	.75
Dr. Eckener	1.35	
Sir Thomas Lipton	1.00	
Belle Poitevine	1.00	.55
Gruss an Teplitz	1.25	.75
Frau Karl Druschki	1.25	.75
General Jacqueminot	1.25	
Talisman	1.25	.75
Dorothy Perkins		.75
Paul's Scarlet	1.00	.75

Belle Poitevine

Talisman

Paul's Scarlet

F. J. Grootendorst



Bittersweet

HARDY VINES *For Summertime Beauty* GOLDFLAME HONEYSUCKLE

A delightful new vine; beautiful, hardy and versatile. The large flame-coral trumpets lined with gold, fragrant after nightfall, appear in immense, showy clusters the same year planted. Reaching its full glory of bloom in early summer, it nevertheless flowers abundantly from May until frost. The dark, blue-green foliage is most attractive in itself and makes a perfect background for the brilliance of the flowers. Allowed to grow naturally, Goldflame will climb a trellis or spread as a ground cover; pruned, it becomes a striking specimen shrub. Hardy and easy to grow. Standard size, 75c each; 2 for \$1.35; 2-yr. select, \$1.00 each.

BITTERSWEET

Hardy native vine of rapid growth. Orange-colored berries remain all winter. Prized for winter decorations indoors. Standard size, 2 for 55c; 2-yr. select, 2 for \$1.20.

CLEMATIS JACKMANI

Large purple blooms 4 to 6 inches across. Begins blooming in July. Standard size, 75c each; 2-yr. select, \$1.25 each.

CLEMATIS PANICULATA

Gives a profusion of creamy white fragrant blooms in September. Standard size, 2 for 55c; 2-yr. select, 80c each.

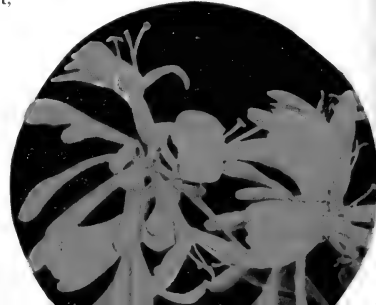
ENGELMANN IVY

Excellent for covering stone or brick walls to which it clings without support. Leaves turn to a beautiful rich red in the fall. Standard size, 2 for 65c; 2-yr. select, 2 for \$1.20.

SCARLET TRUMPET HONEYSUCKLE

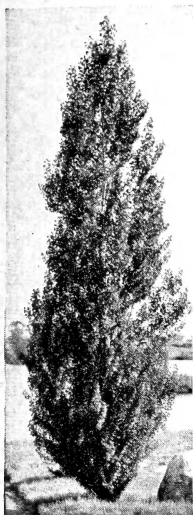
This popular vine is an old favorite. The clusters of trumpet-shaped bright red flowers give a wealth of bloom. Standard size, 2 for 65c; 2-yr. select, 2 for \$1.20.

Goldflame
Honeysuckle

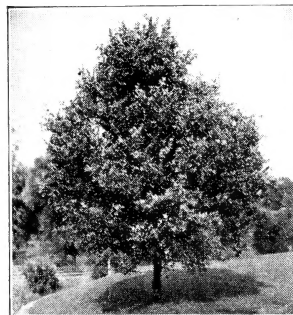


LAWN TREES

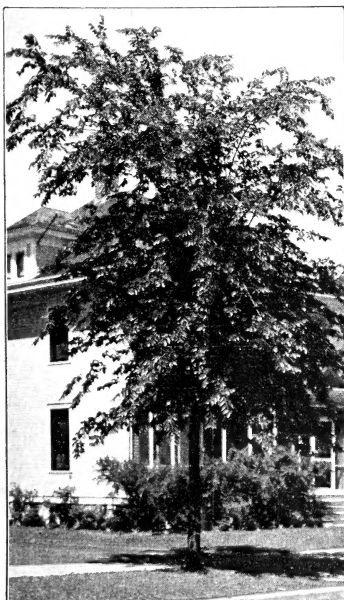
Prices of All Shade Trees on Page 30-I



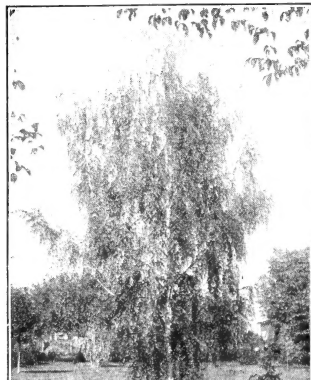
Lombardy Poplar



American Ash



American Elm



Birch



Mountain Ash

ASH, American. This splendid tree is becoming recognized as one of our best shade trees and is being more extensively planted each year. It is clean, symmetrical, drought resistant, and long lived. For shade or for boulevard planting American ash will please you.

BIRCH, Weeping Cut-Leaf. Admired for its delicately cut foliage and silvery white bark and graceful drooping branches. Best in moist locations.

BIRCH, Canoe, White or Paper. A graceful tree with slender branches and silvery white bark. Especially effective when planted in clumps among or near evergreens.

ELM, American. The American White Elm is the grandest, most permanent and universally used ornamental tree in America. It does well in almost any location. Exceedingly good for boulevard planting or as a shade tree where you want a permanent tree.

FLOWERING CRABS

Bechtel's Double Flowering Crab. Produces great masses of large, double, light pink flowers which look like double pink roses. The flowers have the sweetest fragrance of any known tree.

Red Silver. Red in leaf, blossom and fruit, under side of leaves silver.

LOCUST, Honey (Thornless). The Honey Locust is a fast growing, high ornamental tree with distinctive lacy, light green foliage that turns a clear yellow in the fall. The greenish flowers are somewhat hidden by the foliage, but in the fall the large flat pods are very ornamental.

MAPLE, Hard or Sugar. This is one of the most beautiful of shade or boulevard trees. It is stately in all seasons, but truly gorgeous in fall when its dense leaves are brilliant yellow, orange, and scarlet. For beauty and performance Hard Maple cannot be surpassed.

MAPLE, Silver or Soft. A good appearance and rapid growth make this tree very popular where an immediate effect is required.

MAPLE, Norway. Well liked for its pleasing and familiar symmetrical dome-shaped head. Its dense leaves are rich green in color and hold on the tree fully two weeks longer in the fall than those of the other maples. One of the best for lawn or boulevard planting where good form and shade are needed.

MAPLE, Schwedler. The fine characteristics that make the Schwedler Maple a popular favorite are its adaptability to city conditions, its spreading branches forming a round head and its beautiful foliage. Similar in form and habit of growth to the Norway Maple, it is distinguished by its purplish crimson leaves that change to bronze green in late summer. They are most attractive planted as lawn and street specimens.

MOUNTAIN ASH. Its symmetrical, round head makes it ideal for specimen planting. A still more attractive feature is the white flowers that are followed by clusters of orange berries. Will do well on almost any soil.

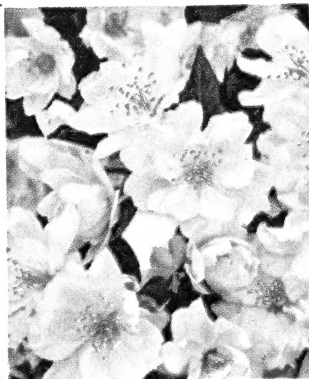
POPLAR, Bolleana. This rapid growing, tall, slender tree is used when accent trees are needed. The leaves are shimmering rich green and show their whitish under sides when turned by the breezes. The bark is grey-green and shows up well in winter.

POPLAR, Lombardy. Well liked wherever it is grown. Is one of the most picturesque as well as one of the most useful trees to be found. It is effectively planted as accent in garden foundation plantings and shrub borders, and as a hedge, or along drives and boundaries. Its branches grow close together and upright from the straight trunk and form a tall, slim column, tapering slightly to a pointed top. It is rapid growing and hardy.

POPLAR, Norway. A fast growing tree of conical shape with large leaves that make a rippling sound when blown by the wind. One of the very best for hardness, for quick effect and for shade. Will thrive where others fail.

HOPA FLOWERING CRAB

From an ornamental standpoint, Hopa is without doubt the most beautiful Flowering Crab that can be grown in the North. It is absolutely hardy, thriving even up in Canada. It develops into a beautiful, graceful, medium sized tree that is strikingly ornamental wherever it may be placed. The buds are blood-red and the tree, when in bloom, is covered with large, single, deep rose-colored blossoms which continue long on the tree, to be followed by quantities of small reddish fruit which makes excellent jelly.



WALNUT, Black. A majestic native tree of large size and most valuable for its timber, choice nuts and shade. Excellent as a specimen for lawn planting.

GOLDEN NIOBE WEeping WILLOW. Splendid as a lawn tree, for planting near pools, or along banks and streams. Graceful with golden bark. Hardest of all weeping Willows.

Golden Niobe Weeping Willow



HOW TO ORDER

Order Early

Orders are booked and reservation of the stock is made as the orders come in. Stock is limited this year because of the labor shortage. Order early so your order can be packed complete.

When Sending Money

When Sending Money with order you may remit by Postal or Express Money Order, Check, or Draft. If you send cash, register your letter. Add 5c exchange when remitting by personal check.

On orders of \$5.00 or less we require all cash with order. Orders over \$5.00 we require either all cash or if customer prefers one-fourth cash with order, balance C.O.D.

Reporting Errors

If you find a shortage or an error, notify us at once. Check your shipment of stock carefully to see that some small items are not left in the packing material. If there is a shortage notify us at once, stating how many bales or boxes in the shipment. All reports must be made within 10 days after shipment or it will be understood that the shipment is satisfactory. See our guarantee on page one regarding shipments received in damaged condition.

Parcel Post

PARCEL POST SHIPMENTS. Some items such as bush fruits are quoted on a prepaid parcel post basis. If an order also contains items that because of their weight or length cannot go by parcel post we reserve the right to send the entire shipment by express. Additional nursery stock to cover the amount of the postage allowance will be enclosed with the order. Shipment of evergreens—see page 25 for details.

APPLES a "Protective Food"

Secretary of Agriculture Wickard says: "If we set out to give everyone in the United States a satisfactory diet ... it has been figured out that we would need to consume twice as much fruit and vegetables as we do now. This is a 'protective food,' rich in minerals and vitamins."

PRICES

Page 29-A							1-4	5-9	10 or	
SPECIAL APPLE VARIETIES	ANOKA BEACON CORTLAND DELICIOUS DOLGO RED DUCHESS HARALSON HIBERNAL MINN. No. 638 MINN. No. 790 N. W. GREENING PIOTOSH PRAIRIE SPY RED FLESH RED RIVER VIRGINIA WEALTHY WEDGE WHITNEY YELLOW TRANSPARENT	{ 5-7 ft. 4-6 ft. 3-5 ft.						Each	Each	Each
							\$1.25 .98 .89	\$1.20 .93 .84	\$1.15 .88 .79	
Page 29-B										
NEWEST OF NEW APPLE VARIETIES	FIRESIDE MINJON VICTORY	{ 3-yr. Each \$1.95 2-yr. Each \$1.50			SPECIAL OFFER 3 Trees 3-yr. Size, Only \$5.25 3 Trees 2-yr. Size, Only \$3.95					
Victory 3-yr. are mostly 4-6 feet; 2-yr., 3-5 feet Other varieties 3-yr. are 5-7 feet; 2 yr., 4-6 feet										
Page 29-C										
PEARS	BANTAM PATTEN PARKER	{ 4-6 ft. 3-5 ft.						1-4 Each \$1.35 1.10	5-9 Each \$1.30 1.05	
Page 29-D										
SPECIAL PLUM VARIETIES	EMBER KAGA (Pollinizer) PIPESTONE REDCOAT SOUTH DAKOTA No. 27 (Pollinizer) SUPERIOR UNDERWOOD	{ 4-6 ft. 3-5 ft.						\$1.35 1.10	\$1.30 1.05	
Page 29-D	NEW PRUNE PLUM VARIETIES									
Page 29-F	Prices, Page 12									
CHERRIES	SAPA OKA COMPASS (Pollinizer) OPATA (Pollinizer)	{ 4-6 ft. 3-5 ft.						1-4 Each \$1.35 1.10	5-9 Each \$1.30 1.05	
	HANSEN'S BUSH CHERRY	{ 2-3 ft. 18-24 in.						.75 .55	.70 .50	
Page 29-G										
GRAPES	BETA FREDONIA RED AMBER MOONBEAM BLUE JAY	2 year prepaid 1 yr. not prep'd (Add 5c each if wanted parcel post)			Each \$0.50 .75			Two \$0.95	Six \$2.50	Ten \$4.00
Page 29-H										
CURRENTS	RED LAKE CASCADE	2-yr. prepaid 1 yr. prepaid 2 yr. prepaid 1 yr. prepaid			Each \$0.60 .50 .85 .65			Two \$0.98 .79	Six \$2.75 1.85	Ten \$4.50 3.50
Page 29-I										
GOOSEBERRIES	PIXWELL CARRIE	2 year prepaid 1 year prepaid 2 year prepaid 1 year prepaid			1.00 .85 .60 .50			.98 .79	2.75 1.85	4.50 3.50
Page 29-J	ASPARAGUS									
Page 29-K										
STRAWBERRIES	DUNLAP BEAVER CATSKILL PREMIER GEM EVERBEARING	Prepaid to 4th Zone Not Prepaid 50 100 250 500 1000 \$1.00 \$1.75 \$3.75 \$6.00 \$10.00 1.35 2.25 4.75 8.25 13.95 1.35 2.25 4.75 8.25 13.95 1.35 2.25 4.75 8.25 13.95 2.25 3.50 7.00 12.00 20.00								

VICTORY GARDENS NOT RATIONED

full and complete fruit garden. It's patriotic, it's healthful, and it's thrifty to plant a VICTORY GARDEN.

There will be a heavy demand on United States food supplies now and during the post war period. You can assure yourself of a plentiful and healthful living and at the same time help the national program by planting a full and complete fruit garden. It's patriotic, it's healthful, and it's thrifty to plant a VICTORY GARDEN.

FREE GIFTS

A FREE GIFT will be included in express shipments of \$4.00 or more to help offset express charges. In choosing size of stock we recommend that you select the larger sizes such as 4-6 ft. or 5-7 ft. fruit trees, top grade berry plants, etc. Such stock is better quality and heavier rooted, and gives quicker and more satisfactory results.

Money Invested

Nursery stock like War Savings Bonds and Stamps, increases in value every year. Invest in a Victory Orchard or a Victory Berry Garden this year. They will save you many times their cost.

Victory Garden

The United States Victory Garden Program is a long range program working for improved health and better eating habits after, as well as during, the war.

Concerning farm fruit gardens it was recommended that the home planting of fruit be included in a well-balanced national program of food production both for immediate and long-time needs.

A good orchard cuts doctor bills.

Planting Success

Planting success depends on the root system of the stock you plant. If you choose "Common" rooted trees, you will invite disappointment. If you choose our "Special Northern Rooted Trees," you will achieve success. Free folder with complete instructions for planting, pruning and spraying will accompany every order. Read this through before planting.

Victory Demands Health

Almost 40 per cent of the boys examined for Selective Service have been rejected because of malnutrition. The records show that there is even more malnutrition in rural districts than in towns! That is why there is a national campaign on urging us to eat more fruit.

Those who grow their own can afford to enjoy more fruit. A good fruit planting will not only cut the grocery bills but will give plenty of fresh fruit with health-giving vitamins.

RASPBERRIES & BLACKBERRIES

Page	Variety	Size	Prepaid				Not Prepaid		
			12	25	50	100	200	500	1000
Page 30-A	Latham Chief Newburgh Taylor	{ 1 yr. Standard	\$1.75	\$2.49	\$4.65	\$ 8.95	\$16.45	\$32.85	\$60.00
		{ 2 yr. Bearing	2.35	3.35	6.25	11.85	21.85	43.85	75.00
Page 30-B	Indian Summer } Sunrise }	{ 1 yr. Standard	2.35	3.35	6.25	11.85	21.85	43.85	75.00
		{ 2 yr. Bearing	2.65	3.85	7.25	13.25	24.65	48.95	84.65
Page 30-C	Sodus - Purplecap	2 yr. Heavy	2.95	4.25	7.95	14.75	27.45	54.50	94.00
Page 30-D	Alfred Blackberry	2 yr. Heavy	2.95	4.25	7.95	14.75	27.45	54.50	94.00
Page 30-E	Lowden Blackberry	{ 1 yr. Standard	3.85	6.95	12.85	20.65			
		{ 2 yr. Heavy	4.75	8.00	15.00	25.00			
Page 30-F	Boysenberry	1 yr.	2.35	3.35	6.25	11.85			

RHUBARB

Page 30-G

MacDONALD } RUBY }	{ No. 1 Divisions prepaid	Each	Two
	{ Medium Divisions prepaid	\$0.75	\$1.40
		.65	1.20
CANADA RED	No. 1 Divisions prepaid	1.10	2.00

SHRUBS

Page 30-H

	Not Prepaid			Not Prepaid	
	Standard	Select		Standard	Select
Barberry, Red Leaf	\$0.65	\$0.80	Lilac, Red Persian	\$0.65	\$1.00
Barberry, Thunbergi	.55	.65	May Day Tree	.65	1.00
Caragana	.55	.65	Mock Orange	.55	.80
Cotoneaster	.75	1.00	Mock Orange, Virginal	.65	1.00
Cranberry, High Bush	.65	.85	Ninebark, Dwarf	.55	.80
Dogwood, Red Twig	.55	.80	"Red Flash" (Cistena)	1.00	1.25
Elderberry, Golden Leaf	.55	.80	Rose Tree of China	.95	1.25
Forsythia (Golden Bell)	.55	.80	Russian Olive	.55	.80
Honeysuckle, Morrowi	.55	.80	Silverberry	.80	1.20
Honeysuckle, Red Bush	.55	.80	Snowberry, Red	.55	.65
Honeysuckle, Zabeli	1.00		Snowberry, White	.55	.65
Hydrangea, A. G.	.65	1.00	Spirea, Anthony Waterer	.55	.80
Hydrangea, P. G.	.65	1.00	Spirea, Billiardi	.55	.80
Lilac, French	.95	1.60	Spirea, Froebeli	.55	.80
Alphonse Lavalle, Blue			Spirea, Snowgarland	.55	.80
Chas. Joly, Red			Spirea, Van Houttei	.55	.80
Mme. Lemoine, White			Tamarix	.55	.80
Pres. Grevy, Blue			Weigela	.65	1.00

SHADE AND ORNAMENTAL TREES

Page 30-I

	Size	Standard		Select		Standard	Select
		Each	Each				
Ash	5-6 ft.	\$0.75	\$1.00		Maple, Norway	5-6 ft.	\$1.25
	6-8 ft.	.95	1.20			6-8 ft.	1.50
Birch, Cut Leaf	5-6 ft.	2.75	3.25		Maple, Schwedler	5-6 ft.	1.95
Weeping	6-8 ft.	3.75	4.25			6-7 ft.	2.35
Birch, White	5-6 ft.	1.25	1.40		Maple, Soft	5-6 ft.	.85
	6-8 ft.	1.75	1.95			6-8 ft.	1.25
Crabs, Flowering					Mountain Ash	5-6 ft.	.95
Bechtel's						6-8 ft.	1.25
Hopa	{ 3-4 ft.	1.25	1.60			8-10 ft.	2.80
Red Silver	{ 4-6 ft.	1.50	1.80		Poplar, Bolleana	5-6 ft.	1.50
Red Flesh						6-8 ft.	2.00
Elm, American	5-6 ft.	.75	1.00			8-10 ft.	2.25
	6-8 ft.	.95	1.20		Poplar, Lombardy	5-6 ft.	.75
	8-10 ft.	1.35	1.60			6-8 ft.	.85
Hackberry	6-8 ft.		2.00			8-10 ft.	1.75
	8-10 ft.		2.40		Poplar, Norway	5-6 ft.	1.60
Linden	5-6 ft.	1.45	1.65			6-8 ft.	2.00
	6-8 ft.	2.25	2.50		Walnut, Black	5-6 ft.	1.25
Locust, Honey	5-6 ft.		1.60			6-8 ft.	1.85
	6-8 ft.		2.00		Willow, Golden	5-6 ft.	.75
Maple, Hard	5-6 ft.	.95			Niobe Weeping	6-8 ft.	.95
	6-8 ft.	1.25				8-10 ft.	2.40



PROF. W. H. ALDERMAN
Chief Division of Horticulture
University of Minnesota

ANDREWS *New Winter - Hardy Grapes*

**Fruit Breeders Give to the
World New High Quality,
Full Size Grapes—They Need
No Winter Protection**

Starred Varieties (★★★)

Originated by Minnesota Fruit Breeding Farm

The long and patient efforts of the staff of the Minnesota Fruit Breeding Farm to improve grapes have been crowned with success. They have developed a group of **large, good quality grapes** that are **hardy** and can stand our 40-degree below without the laborious work of covering with earth in the winter.

It is now possible for all home owners to enjoy this most delicious and healthful fruit—sun ripened on their own vines, thus retaining all the freshness and purity of this vitamin-rich fruit.



Red Amber
(Minn. No. 45)

Three New GRAPES

**Named and Intro-
duced This Year**

After thorough testing at the Minnesota Fruit Farm and elsewhere over the United States, these new winter-hardy grapes are named and introduced this year.

Read what Professor Alderman and Dr. Wilcox say of them. Plant all three varieties. They are ideal for the home garden or for the grape arbor because they are **winter hardy**, and because the fruit is **full size** and **high quality**.

RED AMBER (Minn. No. 45) ★★★

Dr. Wilcox says of Red Amber: "This red grape is considered by many as having the best quality of any on the list. The vines are vigorous and clean in appearance and have bright green leaves. The red berries, which are a little smaller than those of Concord, are borne in clusters of medium size. At the Fruit Breeding Farm they ripen in early September. The flavor is very sweet and rather spicy and of a delicious quality that grape fanciers have pronounced excellent. In its flavor this variety will probably stand comparison with the best varieties grown in New York and other eastern states." Prices, page 29-G.

MOONBEAM ★★★

(Minn. No. 66), Prof. Alderman says of Moonbeam: "This variety is a vigorous grower with an attractive foliage, making it especially useful as an arbor plant. The fruit is unusually large, borne on medium sized clusters, skin tender, color yellowish green (commonly called 'white grape'); flavor is sweet, mild, pleasant; quality as a dessert fruit is good; season slightly later than Beta." Prices, page 29-G.

BLUE JAY (Minn. No. 69) ★★★

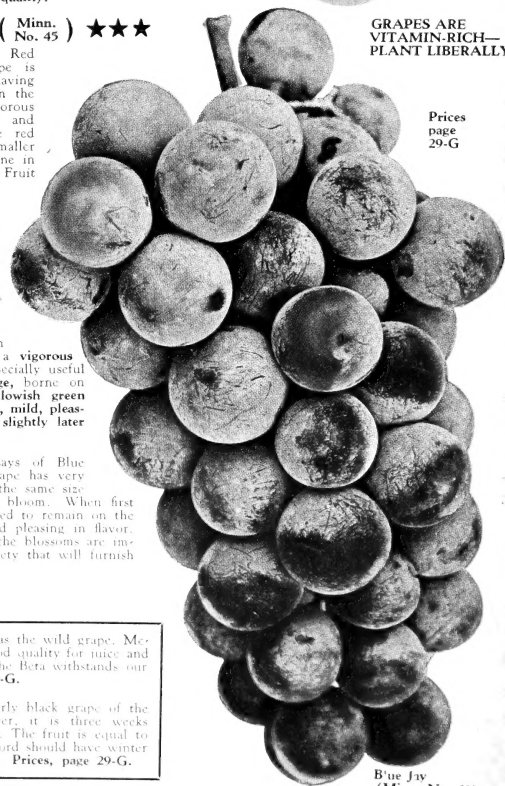
Dr. Wilcox says of Blue Jay: "This grape has very compact and rather large clusters of berries which are about the same size as Concord. They are dull black and covered with a bluish bloom. When first colored and apparently ripe they are rather acid, but if allowed to remain on the vine for ten days or two weeks longer they become mild and pleasing in flavor. They are also good for making juice and jelly. Inasmuch as the blossoms are perfect, this variety needs to be planted near some other variety that will furnish pollen." Prices, page 29-G.

BETA GRAPE

A heavy, annual bearer, hardy as the wild grape. Medium size black fruit of extra good quality for juice and jelly, and ripens so early that it can be grown far north. The Beta withstands our severe northern winters without protection. Prices, page 29-G.

FREDONIA GRAPE

The Fredonia is an early black grape of the Concord type. However, it is three weeks earlier to ripen than Concord, which is a decided advantage. The fruit is equal to or better than Concord. It is very productive, but like Concord should have winter protection. Fredonia is replacing Concord in many districts. Prices, page 29-G.



GRAPES ARE
VITAMIN-RICH—
PLANT LIBERALLY

Prices
page
29-G

Blue Jay
(Minn. No. 69)



DR. A. N. WILCOX
University of Minnesota
In Charge of Grape Breeding